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Summary of Meteorological Observations, Surface (SMOS) Guantanamo Bay, Cuba	S. TYPE OF REPORT & PERIOD COVERED Reference report 1945-1977  6. PERFORMING ORG. REPORT NUMBER
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19. KEY WORDS (Continue on reverse side it necessary and identify by block now Climatology, surface wind, temperature, precipe relative humidity, station pressure, extreme to daily temperature, weather conditions, monthly facility, coastal region, snow depth, cloud continues.	pitation, ceiling, visibility, emperatures, sea level pressure, v climatology. Naval shore
ABSTRACT (Continue on reverse eide if necessary and identity by block num This data report consists of a six part statis weather observations. The six parts are: Par Atmospheric Phenomena, Part B - Precipitation/ Surface Winds, Part D - Ceiling versus Visibil Psychrometric Summaries, Part F - Station Pres	stical summary of surface rt A - Weather Conditions/ /Snowfall/Snow Depth, Part C - lity/Sky Cover, Part E -

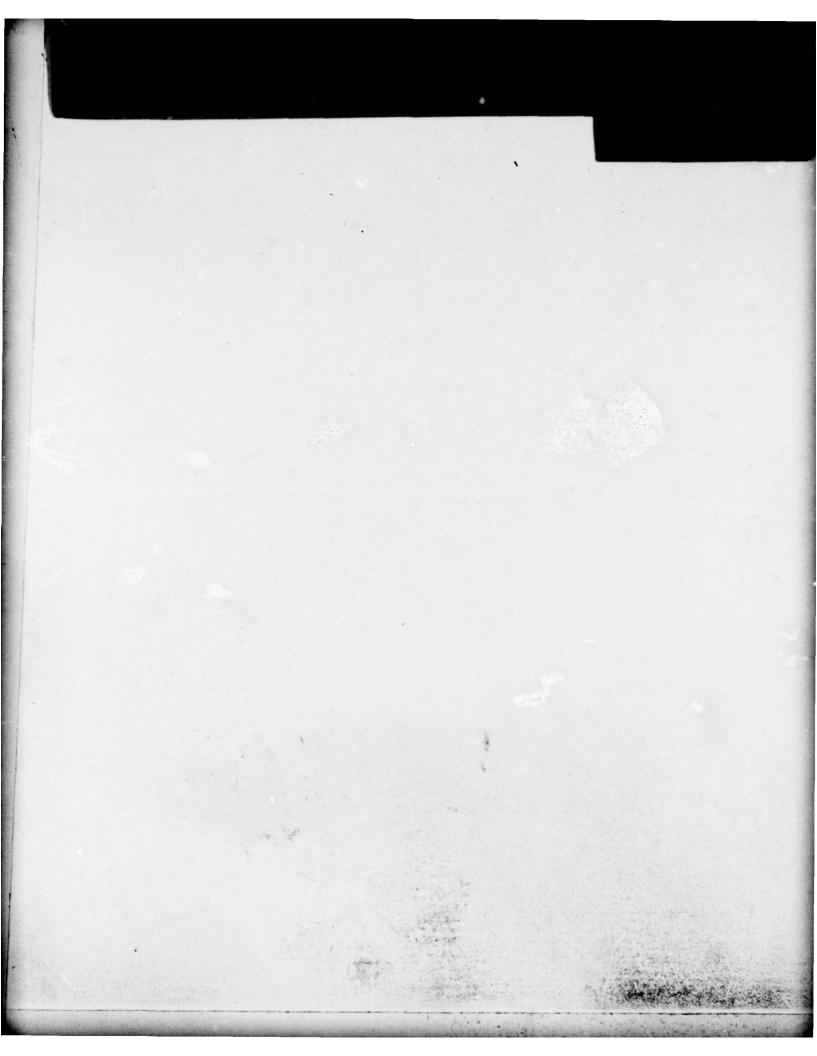
NWSD, Federal Building Asheville, N. C.

DIRNAVOCEANMET 1tr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

- Ten years of data will be used as the standard period of record (POR).
- . All available data will be used for extreme values.
- 3. Summarize (update) every five years.
- 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 a. Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. will be included for extreme values.
- b. The update in 1983 will include the POR 1973 through 1982, with all available data through 1982 for extreme values.
- c. The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.
- d. In 1993 the POR will be 1983 through 1992. All available data through 1992 will be used for extreme values.

Each standard POR (10 years) summary should be related by individual stations along with the SMOS pre-pared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station. DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".O". (This value indicates a percent less than ".Os," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the observation.) Since most stations summarized now have in excess of 10,000 3-nourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort COMMENT: All observations summarized in this tabulation have been computer edited for consistency and is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWSD), Asheville, N. C. welcomes your comment and criticisms.



### PART A

### WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

- . By month and annual, all hours and years combined.
- By month and annual, all hours and years combined, by wind direction.
- 3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same Percentage of observations with precipitation - Included in this category are the observations when one or observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

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total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage reflect the total observations with reduced visibility. The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

# ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheria phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

may occur in the same daily observation, the sum of the values in the individual columns may not equal the centage of observations. Since more than one type of precipitation or more than one type of obstruction The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than per-However, it should be noted that in this summary the columns headed summarized in these tabulations.

This presentation is by month with annual totals, and is prepared with all years combined.

A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later. NOTE:

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency

GUANTANAMO BAY, CUBA

11706 STATION

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	155	155	155	155	155	155	155	155			1240
% OF OBS WITH OBST TO VISION	1,3	1,3	9.								5.
DUST AND/OR SAND											
BLOWING											
SMOKE AND/OR HAZE	Ī.3	1.3	9.				9.				8.
FOG											
% OF OBS WITH PRECIP.	1.3	2.6	1.3	1.3	1.9	*					1.4
HAIL											
SNOW AND/OR SLEET											
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE	1.3	2.6	1.3	1.3	1.9	4.	1.9				1.4
THUNDER. STORMS											
HOURS (L.S.T.)	01	04	07	10	13	16	19	22			
МОМТН	JAN										TOTALS

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GUANTANAMO BAY, CUBA 11705 STATION

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PERCENTAGE FREQUENCY CONDITIONS FROM

TOTAL NO. OF OBS.	141	141	141	141	141	141	141	141			1128
% OF OBS WITH OBST TO VISION			2.8								9.
DUST AND/OR SAND											
BLOWING											
SMOKE AND/OR HAZE			2.8					.,			9.
FOG											
% OF OBS WITH PRECIP.			۲.		1.4		۲.	1.4			
HAIL											
SNOW AND/OR SLEET											
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE	.,				1.4			1.4			۲.
THUNDER- STORMS											
HOURS (L.S.T.)	01	00	20	10	13	16	19	22			
MONTH	FEB										TOTALS

GUANTANAMO BAY, CUBA 11706 STATION

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	ECOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	01		٥.				4.						155
	40		4.				9.						155
	0.7								1.3			1.3	155
	10		9.				•						155
	13								•				155
	16	9.	•				•		••			9.	155
	19	9.	2.6				5.6		••			••	155
	22	9.	1.3				1.3						155.
,													
TOTALS			-ec						• •			*	1240

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# WEATHER CONDITIONS

11706 STATION

GUANTANAMO BAY, CUBA

73-77

YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

									1000		
TOTAL NO. OF OBS.	150	150	150	150	150	150	150	150			1200
% OF OBS WITH OBST TO VISION			2.0	1.3					U		9.
DUST AND/OR SAND											
BLOWING											
SMOKE AND/OR HAZE			2.0	1.3		.,					
50					۲.						
% OF OBS WITH PRECIP.		.,	.7	.7	1.3	0.0	2.7				1.7
HAIL											
SNOW AND/OR SLEET											
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE	1.	۲.		۲.	1.3	6.0	2.7				1.7
THUNDER- STORMS					. 7	1.9	2.0				
HOURS (L.S.T.)	01	90	10	10	13	16	19	22			
MONTH	APR										TOTALS

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11705 STATION

GUANTANAMO BAY, CUBA

73-77

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	155	155	155	135	155	155	155	155			1240
% OF OBS WITH OBST TO VISION	2.6	5.6	4.5	3.2	3.2	3.2	3,2	3.2			3,2
DUST AND/OR SAND										1040	
BLOWING										a colosa.	
SMOKE AND/OR HAZE	2.6	2.6	4.5	3.2	3.2	3.2	3.5	3.2			3.2
FOG											
% OF OBS WITH PRECIP.	5.8	4.5	6.5	3.2	2.6	4.5	4.5	3.9			4:,
HAIL										N.	
SNOW AND/OR SLEET										9	
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE	5.8	4.5	6.9	9.2	2.6	4.5	4.5	3.9			4.4
THUNDER. STORMS	3.2	2.6	1.9	9.	1.9	9.0	1.9	1.9			2.2
HOURS (L.S.T.)	01	90	0.7	10	13	16	19	22		4	
МОМТН	MAY										TOTALS

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# WEATHER CONDITIONS

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YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

										_	
TOTAL NO. OF OBS.	150	150	150	150	150	150	150	150			1200
% OF ORIS WITH OUST TO VISION	7.3	0.9	5.3	0.9	5.3	6.7	6.7	7.3			6.3
DUST AND/OR SAND											
BLOWING											
SMOKE AND/OR HAZE	7.3	0.9	5.3	0.9	5.3	6.7	6.1	7.3			6.3
FOG											
% OF OBS WITH PRECIP.		1.3	1.3	2.0	2.7	3.3	2.7	1.3			1.8
HAIL											
SNOW AND/OR SLEET											
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE		1.3	1.3	2.0	2.7	9.3	2.7	1.3			1.8
THUNDER. STORMS	2.7	2.0	2.7	1.3		4.0		۲.			2.2
HOURS (L.S.T.)	0.1	40	07	10	13	16	19	22			
MONTH	NOC										TOTALS

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GUANTANAMO BAY, CUBA

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

МОМТН	HOURS (L.S.T.)	THUNDER. STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	503	SMOKE AND/OR HAZE	BLOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01	1.9	0				•		6.5			6.5	155
	40	1.9	2.6				2.6		5.8			5.8	155
	07	1.9	1.9				1.9		5.2			5.2	155
	10								5.2			5.2	155
	13	1.3							4.5			4.5	155
	16	3.2	2.6				2.6		7.7			7.7	155
	19	1.3	9.				٠.		4.8			8.4	155
	22	1.9	9.				°.		7.1			7.1	155
	2												
TOTALS		1.7	1.1				1.1		6.3			6.3	1240

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GUANTANAMO BAY, CUBA 11706 STATION

73-77

YEARS

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

	-								 		
NO. OF OBS.	155	155	155	155	155	195	155	155			1240
% OF OBS WITH OBST TO VISION	3.9	5.2	1,3				1.9	3.9			2.0
DUST AND/OR SAND											
BLOWING								*			
SMOKE AND/OR HAZE	3.9	5.5	1.3				1.9	9.6			2.0
FOG											
% OF OBS WITH PRECIP.	1.9	1.9	1.3	•	1.3	2.6	°.	•			1.4
HAIL											
SNOW AND/OR SLEET											
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE	1.9	1.9	1.3	9.	1.3	2.6	•	9.			1.4
THUNDER- STORMS	1.9	4.5	3.9	1.9	7.1	5.2	5.6	1.9			3.6
HOURS (L.S.T.)	01	90	07	10	13	16	19	22			
MONTH	AUG										TOTALS

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GUANTANAMO BAY, CUBA

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	Pog	SMOKE AND/OR HAZE	BLOWING	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01	3.3	2.0				2.0		1.3			1.3	150
	40	4.0	2.0				2.0		1.3			1.3	150
	07	٠.	1.3				1.3		1.3			1.3	150
	10	2.0	2.0				2.0						150
	13	7.3	3.3				3,3						150
	16	7.3	2.7	100			2.7						150
	19	2.7	2.7				2.7		2.0			2.0	150
	22	۲.	2.0				2.0		1.3			1,3	150
TOTALS		3.5	2.3				2,3		1.0			1.0	1200

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WEATHER CONDITIONS

GUANTANAMO BAY, CUBA 11706 STATION

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	155	155	185	155	155	155	155	155			1240
% OF OBS WITH OBST TO VISION								9.			
DUST AND/OR SAND											
BLOWING											
SMOKE AND/OR HAZE								• 6			.1
FOG											
% OF OBS WITH PRECIP.	3.9	3.9	1.3	1.3	12.3	7.7	5.2	1.9			4.7
HAIL											
SNOW AND/OR SLEET											
FREEZING RAIN &/OR DRIZZLE		4.									
RAIN AND/OR DRIZZLE	3.9	3.9	1.3	1.3	12.3	7.7	5.2	1.9			4.7
THUNDER- STORMS	4.5	2.6	1.3	1.3	7.1	3.2	3.2	2.6			3.2
HOURS (L.S.T.)	10	40	07	10	13	16	19	22			
MONTH	DCT										TOTALS

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GUANTANAMO BAY, CUBA

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

SNOW AND/OR SLEET	RAIN FREEZING SNOW AND/OR RAIN &/OR AND/OR DRIZZIE DRIZZIE SIEET
	7.2
	4.7
	3.3
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WEATHER CONDITIONS

11706 STATION

GUANTANAMO BAY, CUBA

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PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

75	155	155	155	155	155	155	155	155			0
TOTAL NO. OF OBS.	-	-	-	-	-	-	-	-			1240
% OF OBS WITH OBST TO VISION	1.3	1.3					2.6	2.6			1.0
DUST AND/OR SAND											
BLOWING											
SMOKE AND/OR HAZE	1.3	1.3					2.6	2.6			1.0
506											
% OF OBS WITH PRECIP.	°.	1.3	•		1.3	2.6	1.9				1.0
HAIL											
SNOW AND/OR SLEET											
FREEZING RAIN &/OR DRIZZLE											
RAIN AND/OR DRIZZLE	9.	1.3	9.		1.3	2.6	1.9			The second secon	1.0
THUNDER- STORMS	9.	•				9.					.2
HOURS (L.S.T.)	10	*0	07	10	13	16	19	22		¥	
MONTH	0 <b>E</b> C									1	TOTALS

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11706 STATION

GUANTANAMO BAY, CUBA

73-77

YEARS

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

TOTAL NO. OF OBS.	1240	1128	1240	1200	1240	1200	1240	1240	1200	1240	1200	1240
% OF OBS WITH OBST TO VISION		9.	*	•	3.2	6.3	6.3	2.0	1.0			1.0
DUST AND/OR SAND												
BLOWING												
SMOKE AND/OR HAZE	. 5	9.	4.	8.	3.2	6.3	6.3	2.0	1.0	•1	.3	1.0
506				.1								
% OF OBS WITH PRECIP.	1.4	.,	00	1.7	4.4	1.8	1:1	1.4	2.3	4.7	1.7	1.0
HAIL												
SNOW AND/OR SLEET												
FREEZING RAIN &/OR DRIZZLE												
RAIN AND/OR DRIZZLE	1.4	۲.	•	1.7	4.4		1.1	1.4	2.3	4.7	1.7	1.0
THUNDER- STORMS			~		2.2	2.2	1.1	3.6	3.5	3.2	*.	.2
HOURS (L.S.T.)	ALL											
MONTH	NAL	# 83	MAR	APR	MAY	SCN	705	AUG	SEP	100	NO.	DEC

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# WEATHER CONDITIONS ATMOSPHERIC PHENOMENA

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PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY DESERVATIONS

TOTAL NO. OF OBS.	668	619	668 4	8 870	668	1 870	898	668	070	968	8 870	1 899	980
% OF OBS WITH OBST TO VISION	1.4	1.8	4.7	6.8	2.0	4.1	3,3	2.1	1.0	2.5		1:1	3.4
DUST AND/OR SAND				-									
BLOWING													
SMOKE AND/OR HAZE		1.3	4.2	6.3	1.6	3.7	3,3	2.0	6	9.	9.		2.1
FoG		9.		9.	4.	.5			6.	1.9		4.	¥
% OF OBS WITH PRECIP.	21.0	17.1	15.7	19.3	32.0	29.8	19.0	27.8	34.4	44.3	33.7	24,1	4
HAIL		1					~						•
SNOW AND/OR SLEET													
FREEZING RAIN &/OR DRIZZLE													
RAIN AND/OR DRIZZLE	21.0	17.0	15.7	19.3	32.0	29.8	18.8	27.8	34.4	44.3	33.7	24.1	3 7 8
THUNDER- STORMS	101	.2	2.3	3.4	13.8	19.3	18.3	25.6	31.1	22.9	3.6	2.0	
HOURS (L.S.T.)	DAILY												
MONTH	MAC	83	MAR	APR	MAY	NO	300	AUG	SEP	100	NON	DEC	TOTALS

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GROUND FOG

FOG

THUNDER

HAIL HAIL

SNOW GRAINS " PELLETS " SHOWERS

SLEET

" SHOWERS
ICE
CRYSTALS

FREEZING RAIN FREEZING DRIZZLE

DRIZZLE

RAIN

RAIN

DIRECTION

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### PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

ALL HOURS (L.S.T.) JANUARY JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA 11706 STATION

10000 98.1 100.0 98.8 NO SAND SAND AND DUST BLOWING SNOW 1.9 SMOKE

TOTAL NUMBER OF OBSERVATIONS

1,240

1219

00

C A

95.1

2.8

20.0

3

WSW

MNM

0

×

1.4

NNN

VARIABLE

CALM

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% TOTAL

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TOTAL

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JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA STATION

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2 4 0 4	MONTH
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NO	97.9	97.7	97.3	100.0	10000	100.0	100.0	100.0	100.0	97.0	100.0	100.0	4.46	100.0	0.96	98.8		0.00	1113	186
BLOWING SAND AND DUST																		X		
BLOWING																		$\bigvee$		
SMOKE	1.3														0.4	1.2		$\bigvee$	7	9.
ICE FOG GROUND FOG																		$\bigvee$		
FOG																		$\mathbb{X}$		
THUNDER																		X		
HAIL SMALL HAIL																		X		
SNOW "GRAINS " PELLETS " SHOWERS										,								X		
SLEL. " SHOWERS 1.2 E CRYSTALS																		X		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																		$\bigvee$		
RAIN	*	1.5	1.6							3.0			5.6					X	•	
RAIN	4.		1.4															X	ru.	.2
WIND	z	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WN	NNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

1,128

NAVWEASERVCOM

20

0

JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA

NO WEATHER	98.1	98.2	98.6	97.1	1.66	97.6	98.2	98.6	100.0	100,0	100.0	100.0	100,0	92.3	100.0	100.0			1223	98.6
SAND SAND AND DUST																		$\bigvee$		
BLOWING																		$\bigvee$		
SMOKE		.9				1.6		1.4										$\bigvee$	4	.3
GROUND FOG																		$\bigvee$		
F0G																		$\bigvee$		
THUNDER	10				6.													X	ce.	.2
HAIL SMALL HAIL																		$\bigvee$		
SNOW GRAINS PELLETS SHOWERS																		$\bigvee$		-
SLEET " SHOWERS ICE CRYSTALS																		$\bigvee$		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																		$\bigvee$		
RAIN	.5	6.		2.9	6.		1.8							7.7				X	•	9.
RAIN	10		1.4															X	,	.2
WIND	z	NNE	NE	ENE	Ш	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WZ	MNN	VARIABLE	CALM	10101	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

0

1,240

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NAVWEASERVCOM

JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA 11706 STATION

ALL HOURS (L.S.T.)

APRIL

1173 7 WEATHER BLOWING SAND AND DUST BLOWING SNOW 2 1.9 5.0 SMOKE HAZE ICE FOG GROUND FOG FOG 004 0 1.6 1. 3 6.1 THUNDER HAIL HAIL SNOW GRAINS PELLETS SHOWERS SLEET
" SHOWERS
ICE
CRYSTALS FREEZING RAIN FREEZING DRIZZLE DRIZZLE X 3.9 m 0 8 1.3 1.4 SHOWERS RAIN VARIABLE % TOTAL DIRECTION TOTAL NNE ENE WSW WN W NNN ESE MIND SSE SSW Ä SW SE \* W S z

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TOTAL NUMBER OF OBSERVATIONS

1,200

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ALL HOURS (L.S.T.) MAY JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA 11706 STATION

NO	93.7	91.7	87.8	91.3	84.1	89.9	98.1	95.8	91.2	91.4	96.5	4.46	96.2	100.0	75.0	8.06		V.	04	92.4
BLOWING SAND AND DUST																		X		
BLOWING																		X		
SMOKE	3.8	1,2	4.9	4.3	4.8	3.7		2,8	2.9	4.3	1,8	3.7			4,2	6,1		7	2	3,2
ICE FOG GROUND FOG																		$\bigvee$		
F0G																		$\bigvee$		
THUNDER	80	8.4	6.4		*	1.8		1.4	2.9	4.3	1.8	1.9	80°		12.5	2.0		X	07	2.3
HAIL SMALL HAIL																		X		
SNOW " GRAINS " PELLETS " SHOWERS																		X		
SLEET " SHOWERS ICE CRYSTALS																		X		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																		X		
RAIN	1.7	7.1	9.8	4.3	12.7	6.4	1.9		5.9	4.3	3.5		3.8		16.7	5.1		77	20	4.4
RAIN																		X	*	. 1
WIND	z	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	MN	MNN	VARIABLE	CALM	TOTAL	% TOTAL

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TOTAL NUMBER OF OBSERVATIONS

1,240

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LUNE JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA 11706 STATION

NO	8.46	92.0	95.3	87.8	88.2	87.0	36.7	88.8	88.9	91.4	95.8	100.0	100.0	68.9	83.7	83.8		ZX X	1085	4.06
BLOWING SAND AND DUST																		$\bigvee$		
BLOWING																		$\bigvee$		
SMOKE	3.4	1.8		12.5	6,5	10.4	11.1	10.0			4.2			11.1	16.3	14.1		XX	76	6.3
GROUND FOG																		$\bigvee$		
606																		$\bigvee$		
THUNDER	1.3	1.8			3.6	2.0	2.2	1.3	20	5.7					2.0	2.0		X	56	2.2
HAIL SMALL HAIL																		M		
SNOW "GRAINS "PELLETS "SHOWERS																		M		
SLEET " SHOWERS ICE CRYSTALS																		$\bigvee$		
FREEZING NAIN FREEZING ORIZZLE																		$\bigvee$		
DRIZZLE																		$\bigvee$		
RAIN	*	2.7	4.7		3.2		1.1	1.3	6.1	6.2						1.0		Z V	18	1.5
RAIN		1.8																7	4	. 3
WIND	z	NNE	Ä	ENE	ы	ESE	SE	SSE	s	SSW	SW	WSW	W	WNW	WN	MNN	VARIABLE	CALM	TOTAL	% TOTAL

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TOTAL NUMBER OF OBSERVATIONS

0

1,200

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ALL HOURS (L.S.T.) JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA STATION

NO	91.6	93.6	86.5	93.5	7.76	95.6	96.7	85.3	85.4	85.7	80.0	72.7	91.7	7.96	95.0	89.7		2	1132	91.3
BLOWING SAND AND DUST																		$\bigvee$		
BLOWING																		$\bigvee$		
SMOKE	3.6	5.5	7.7	3,2	3.2	3.7	2,2	13,2	14.6	14,3	15.0	27,3	8,3	5,3	1.7	6.5		V.	78	6.3
GROUND FOG																		$\bigvee$		
509																		$\bigvee$		
THUNDER	2.3		1.9	3.5	1.6	3.7	1.1	3.5			9.0				1.7	1.9		$\bigvee$	21	1.7
HAIL SMALL HAIL																		$\bigvee$		
SNOW "GRAINS "PELLETS "SHOWERS																		$\bigvee$		
SLEET " SHOWERS ICE CRYSTALS																		$\bigvee$		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																		$\bigvee$		
RAIN	80	6.	3.8		•	1.2									1.7	2.8		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1.3	1.0
RAIN					8.											6.		X	•	.2
WIND	z	NNE	NE	ENE	3	ESE	SE	SSE	s	SSW	SW	WSW	W	WNW	WN	NNN	VARIABLE	CALM	1014	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

1,240

NAVWEASERVCOM

ALL	HOURS (L.S.T.)
AUGUST	MONTH
JAN 1973 - DEC 1977	YEARS
GUANTANAMO BAY, CUBA	STATION NAME
11706	STATION

NO	95.2	92.2	92.3	97.4	93.7	95.3	95.7	92.6	96.7	81.0	81.8	100.0	6.06	100.0	96.0	89.9		7	1165	0.76
BLOWING SAND AND DUST																		X		
BLOWING																		$\bigvee$		
SMOKE	2,2	2.6	9.0	2.6	2.1	1.3				4.8						5.5		S/	25	2.0
GROUND FOG																		$\bigvee$		
505																		$\bigvee$		
THUNDER	5.6	4	1.5		3.5	3.4	4.3	7.4	8.3	14.3	9.1		9.1		0.4	1			4	3.6
HAIL SMALL HAIL	2																	M		
" GRAINS " PELLETS " SHOWERS																		M		
SLEET " SHOWERS ICE CRYSTALS																		M		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																		$\bigvee$		
RAIN	4.	4.3	1.5		1.4	1.3				6.6	9.1					2.8		M	1.7	1.4
RAIN																		M		
WIND	z	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WN	NNN	VARIABLE	CALM	TOTAL	% TOTAL

NAVWEASERVCOM

1,240

TOTAL NUMBER OF OBSERVATIONS

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JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA 11706 STATION

SEPTEMBER

ALL HOURS (L.S.T.)

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NO	98.1	96.7	92.2	87.5	80.9	94.2	92.7	94.2	93.0	92,3	82.4	100.0	92.9	87.5	91.3	6.96		¥ 27	1130	94.2
BLOWING SAND AND DUST																		$\bigvee$		
BLOWING																		$\bigvee$		
SMOKE	4.	1.7	2.0	2,5	1.5	1.9										3.3		$\bigvee$	12	1.0
GROUND FOG																		$\bigvee$		
509																		$\bigvee$		
THUNDER		1.7	3.9	5.0	11.8	2.9	7.3	2.9	7.0	3.8	5.9		7.1	12.5	6.9	3.4		X	42	3.5
HAIL SMALL HAIL																		$\bigvee$		
SNOW. " GRAINS " PELLETS " SHOWERS																		$\bigvee$		
SLEET " SHOWERS ICE CRYSTALS																		$\bigvee$		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																		$\bigvee$		
RAIN			3.9	7.5	5.6			1.4		3.8	11.8			12.5	4.3	. 8		X	21	1.8
RAIN					1.5	1.0		5.9		3.8	6.6							X	•	
WIND	z	NNE	NE	ENE	W	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	WN	MNN	VARIABLE	CALM	TOTAL	% TOTAL

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TOTAL NUMBER OF OBSERVATIONS

1,200

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# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

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OCTUBER	MONTH
JAN 1973 - DEC 1977	YEARS
GUANTANAMO BAY, CUBA	STATION NAME
11706	STATION

0

ALL HOURS (L.S.T.)

NO	96.2	95.0	24.7	81.3	90.1	95.5	95.9	69.5	93.0	95.7	91.7	84.6	86.7	100.0	93.1	4.6		No.	1163	93.8
SAND SAND AND DUST																		$\bigvee$		
BLOWING												9						$\bigvee$		
SMOKE																		$\forall$	-	10
ICE FOG GROUND FOG																		$\bigvee$		
F0G																		$\mathbb{N}$		
THUNDER	2.1	2.2	3.5	3.1	9.6	3.0	4.1	7.0	2.8	2.1	4.2	7.7	13.3		0.0	1.3		X	0,	3.8
HAIL SMALL HAIL																		M		
SNOW " GRAINS " PELLETS " SHOWERS																		M		
SLEET " SHOWERS ICE CRYSTALS																		$\bigvee$		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																		$\mathbb{N}$		
RAIN	2.4	2.2	3.5	15.6	7.0	1.5	2.0	80	5.6	4.3	8.3	7.7	6.7		3.4	2.0		V V	51	4.1
RAIN	.3	.7		3.1				1.8					6.7					\$ \ \	-	9.
WIND	z	NNE	JN	ENE	3	ESE	SE	SSE	S	SSW	NS.	wsw	*	WNW	MN	MNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

1,240

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ALL HOURS (L.S.T.) NOVEMBER JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA

NO	99.7	97.4	97.0	100.0	97.3	98.9	98.0	97.3	100.0	100.0	63.3	83.3	100.0	88.9	95.7	97.1		2	1175	97.9
BLOWING SAND AND DUST																		$\bigvee$		
BLOWING																		$\bigvee$		
SMOKE		. 5	1.0															$\bigvee$	m	.3
ICE FOG GROUND FOG																		X		
509																		$\bigvee$		
THUNDER	. 3				1.4						6.7					. 7		X	50	4.
HAIL SMALL HAIL																		$\bigvee$		
SNOW " GRAINS " PELLETS " SHOWERS																		X		
SLEET  SHOWERS  ICE  CRYSTALS																		X		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																		$\bigvee$		
RAIN	.3	1.1	2.0		2.7	1.1	2.0	2.7							4.3	.7			15	1.3
NIA		1.1										16.7		11,1		. 7		X	īU	4.
WIND	z	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	×	WNW	WN	NNN	VARIABLE	CALM	TOTAL	% TOTAL

TOTAL NUMBER OF OBSERVATIONS

1,200

JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA 11706 STATION

0

DECEMBER

ALL HOURS (L.S.T.)

NO	98.1	97.7	6.86	100.0	97.1	98.7	98.6	100.0	95.7	100.0	100.0	87.5	100.0	100.0	100.0	97.2	2	1215	98.0
BLOWING SAND AND DUST																	$\bigvee$		
BLOWING																	X		
SMOKE	1,3	1.07														1,1	V	12	1.0
ICE FOG GROUND FOG																	$\bigvee$		
F0G																	$\bigvee$		
THUNDER												12.5				9.	$\bigvee$	R	2.
HAIL SMALL HAIL																	X		
SNOW "GRAINS " PELLETS " SHOWERS																	V		
SLEET " SHOWERS ICE CRYSTALS																	$\bigvee$		
FREEZING RAIN FREEZING DRIZZLE																	$\bigvee$		
DRIZZLE																	$\bigvee$		

1.5

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RAIN

RAIN

WIND

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TOTAL NUMBER OF OBSERVATIONS

1,240

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VARIABLE

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TOTAL % TOTAL

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ALL	HOURS (L.S.T.)
ALL	HINOM
JAN 1973 - DEC 1977	YEARS
GUANTANAMO BAY, CUBA	STATION NAME
11706	STATION

NO	96.8	96.0	95.7	94.8	0.46	95.3	96.3	1.46	94.6	2.46	1.46	94.8	6.46	6.46	93.1	94.8			13939	45.4
BLOWING SAND AND DUST																		X		
BLOWING																		$\bigvee$		
SMOKE	1.4	1.3	1.3	1.9	1.6	2,2	1.2	2.9	1.6	2,1	1,8	2.6	1.3	2.2	5 . 4	2.9		X	266	1.8
GROUND FOG																		X		
50	0.																	$\bigvee$	-	0.
THUNDER	1.0	1.1	1.1	0.	2.0	1.7	1.0	1.9	5.5	2.6	2.2	1.6	3.1	1.4	5.4	1.2		X	221	1.5
HAIL SMALL HAIL																		X		
SNOW GRAINS PELLETS SHOWERS																		X		
SLEET " SHOWERS ICE CRYSTALS																		X		
FREEZING RAIN FREEZING DRIZZLE																		$\bigvee$		
DRIZZLE																.1		X	1	0.
RAIN	. 8	1.6	2.2	2.3	2.8	1.3	1.1	1.6	2.3	2.6	2.6	1.0	2.5	2.2	2.2	1.6		X	237	1.6
RAIN	50	4.	4.		.2	1.		4.		.3	4.	15.	1.3					X	4	.3
WIND	z	NN	NE	ENE	В	ESE	SE	SSE	s	SSW	SW	WSW	×	WNW	WN	NNN	VARIABLE	CALM	TOTAL	% TOTAL

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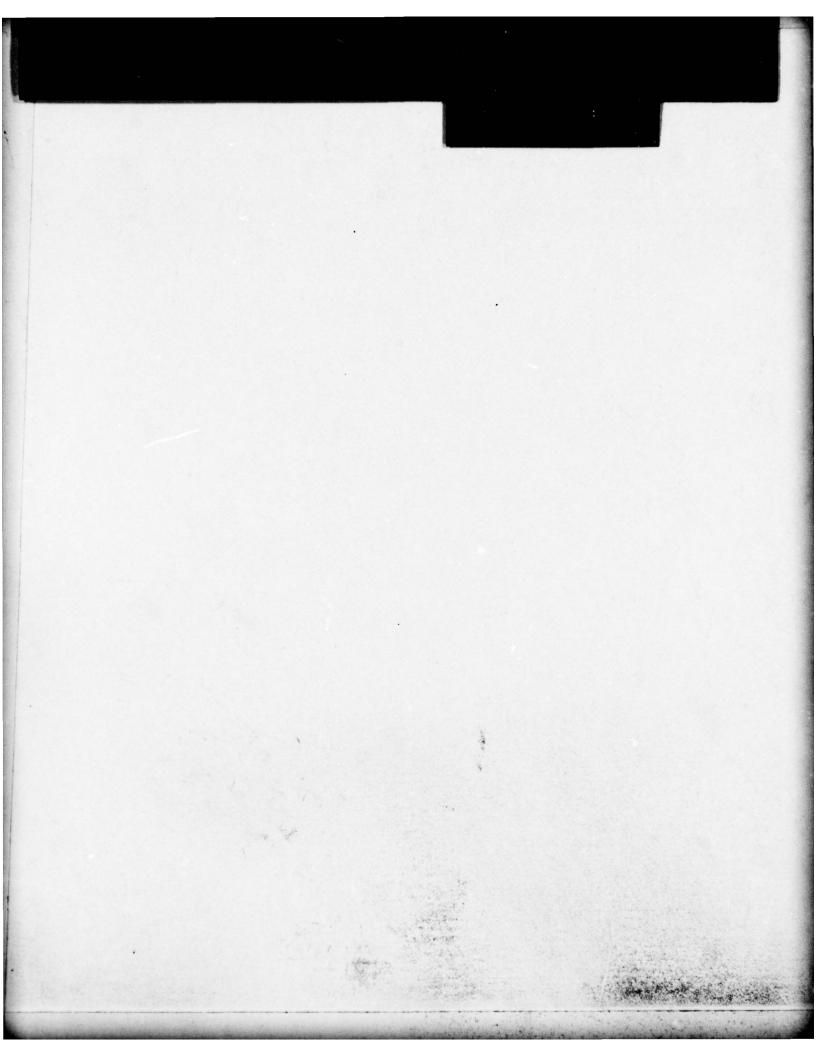
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TOTAL NUMBER OF OBSERVATIONS

0

14,608

NAVWEASERVCOM



#### PART B

# PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

#### PRECIPITATION

SNOWFALL\*

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

DERIVED FROM DAILY OBSERVATIONS

DERIVED FROM DAILY OBSERVATIONS

- The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have ilmited use and and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual may be misleading.
- The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing. ö

Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Snow depth at 0030 GCT Snow depth at 1230 GCT Snow depth at 1200 GCT Snow depth at 1200 GCT Snow depth at 0800 LST Snow depth at 1230 GCT From beginning of record thru Jun 52 From beginning of record thru 1945 Jun 57-present Jan 46-May 57 U. S. Navy and Weather Air Force Stations Bureau Stations

Jun 57-present Jul 52-May 57

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

GUANTANAMO BAYAION NEME

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18-77

						AMA	AMOUNTS (INCHES)	CHES						TANDON		MOM	MONTHLY AMOUNTS	UNTS
PRECIP.	NON	TRACE	6	.0205	0190.	.11.25	.2650	.51.1.00	1.01.2.50	2.51-5.00	5.01-10.00	10.01-20.00 OVER 20.00 OF DAYS	OVER 20.00	OF DAYS	NO.		(INCHES)	
SNOWFALL	NON	TRACE	0.1.0.4	0.5-1.4	1.5.2.4	2.5.3.4	3.5-4.4	4.5.6.4	6.5.10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4	MEASUR-	9 o S	Near	Caratest	LEAST
SNOW.	NON	TRACE	•	2	9	4-6	7.12	13.24	25.36	37.48	49.60	61-120	OVER 120	AMTS				
NAL	79.5	10.1	1.4	3.2	1.6	1.4	1.2	1,1	4.		.1			10.4	930		1.0110.34TRACE	TRACE
2	82.6	7.6	00	2.2	1.9	2.6	9.	.7	6.					9.6	847	.83	3.40	.00
MAR	83.7	6.0	w.	2.3	1.2	2.2	4	1,1						9.5	992	96.	3.45	.00
APR	80.5	8.5	0.	2.9	1.4	1.7	2.0	60	6.	.3				10.9	960	1.20	5.36	.00
MAY	67.8	11.2	1.3	4.7	1.6	4.4	2.6	2.7	2.8	9.	.2			50.9	1023		3.5118.79	.03
ž	70.5	10.1	1.7	6.3	2.7	7.6	2.5	2.4	1.6	.1	.2			19.4	990		2.2317.56TRACE	TRACE
101	81.2	7.3	30	2.4	1.1	2.7	2.2	1.8	4.					11.5	992	96.	2.23	.02
AUG	72.6	4.6	9.	5.5	2.8	2.7	2.7	2,3	1.0					18.0	196	1.84	5.68	.02
SEP	64.6	6.6	2.2	6.0	3.1	4.3	3.9	3.4	90	. 7	.1			25.5	960		3.1913.38	.04
100	56.5	9.6	2.2	6.2	3.9	6.3	5.0	5,1	3.4	1.0	.5			33.8	266		5.9419.83	.33
NOV	66.7	12.6	1.2	7.6	2.0	3.3	3.6	1.8	.5	.2				20.7	066	1.53	7.27	.04
DEC	76.5	10.2	1.3	4.1	1.6	2.2	2.2	1.4	9.					13.3	1023	1.00		3.88TRACE
ANNUAL	73.6	9.5	1.2	4.3	2.1	3.1	2	2.0	1.3	6.	. 1			17.0	1166024,20	24.20	X	X

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## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF (FROM BALLA GBSERVATIONS)

CUANTANAMO BAKAION WIN

						AM	AMOUNTS (INCHES)	CHES						THEOLOGIC		NOW	STALLOW A VINTA	STAIL
PRECIP.	NON	TRACE	10.	.0205	0190.	.1125	.2650	.51.1.00	1.01-2.50	2.51-5.00	2.51-5.00 5.01-10.00 10.01-20.00 OVER 20.00 OF DAYS	10.01-20.00	OVER 20.00	OF DAYS	NO.		(INCHES)	
SNOWFALL	NONE	TRACE	₹'0-1'0	₹1.5.0	1.5-2.4	2.5.3.4	3.5.4.4	4.5.6.4	4.5.10.4	10.5.15.4	15.5.25.4	25.5-50.4	OVER 50.4	MEASUR-	9 0	1		1
SNOW.	NON	TRACE	-	2	9	4.6	7.12	13.24	25.36	37.48	49.60	61-120	OVER 120	AMTS		MEAN	OREATEST	ic val
NAL	100,0														589	0.	0.	0.
2	100.0														479	.0	0.	0.
MAR	100.0						3								496	0.	0.	.0
APR	100.0														600	0.	0.	0.
MAY	100.0														682	0.	0.	
3	100.0														570	0.	0.	0
N N	100.0														651	0.	0.	0
AUG	100.0														589	0.	0.	0.
SEP	100.0												**		\$70	0.	0	0
50	100.0														553	0.	0.	0
Š	100.0														\$70	0.	0.	0.
DEC.	100.0			1,1											527	00	0	9
ANNUAL	ANNUAL 100.0														6881	0.	X	X

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NAVWEASERVCOM

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## DAILY AMOUNTS

FERCENTAGE FREQUENCY OF

GUANTANAMO BAKKION NAME

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-53. 55. 61. ... 63-64. 66-77

						AM	AMOUNTS (INCHES)	(CHES)						PERCENT		MON	MONTHLY AMOUNTS	UNTS
PRECIP.	NON	TRACE	6.	.0205	0190.	.1125	.2650	.51.1.00	1.01.2.50	2.51-5.00	5.01-10.00	10.01-20.00	5.01-10.00 10.01-20.00 OVER 20.00 OF DAYS	DF DAYS	NO.		(INCHES)	
SNOWFALL	NON	TRACE	₹0.1.0	0.5.1.4	1.5.2.4	2.5.3.4	3.5.4.4	4.5-6.4	6.5-10.4	10.5-15.4		25.5.50.4	OVER 50.4	MEASUR.	9 o S	MEAN	GREATEST	LEAST
SNOW.	NONE	TRACE	1	2	3	4.6	7.12	13.24	25.36	37.48	49.60	61.120	OVER 120	AMTS				
	100.0														496			
FES	100.0			447)											423			6
MAR	100.0														434			
APR	100.0														510			
MAY	100.0												7		558			
NOT	100.0														480			
ınr	100.0			7											527			
AUG	100.0														463			
SEP	100.0														450			
000	100.0														484			
NOV	100.0														480			
DEC	100.0														465			
ANNUAL	ANNUAL 100.0														5722		X	X

0 0 0 0 0 0 0 0 0 0 0

FROM DALLY OBSERVATIONS

GUANTANAMO BAY, CUBA

11706 STATION

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0 0

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24 HOUR AMOUNTS IN INCHES

ALL		3.17			0				4.63		3.10								7.60	-	2	2			0		0.	-		-		
DEC.		.76	4	RACE	.79	. 45	.72	.16	+0.	+0.		1.01		1.04		.20			.35	.17	. 53	1.85	.03	.07	04.	.03	.33	.31	. 58	60.		
NO V.		1.07		-	. 89	.77	09.	.31	*0.	.78	.45	. 50	*0.	20.	.55	. 59	94.	* 2.	2.70		64.	2.34			3.08		. 48	EC.	1.02	. 48		
OCT.	2.03			.2	5.07	-		2.				6.88	.38	1.00		+8+			7.60			1.17			1.38			2.07		. 59		
SEP.					1.95						1.86			3,90		.67	.42	.31	.19	. 56		5.22		86.	.39	.87	. 78	.72	1.27	*		
AUG.	80	.32		09.	9.	0	9.	.26	8	7	2.70	0	~		S.	4	2	e.	1.32	-	~	0	0	5	0	1.47	0.	. 20	2	-		
JUL.	C	.67	0	•	202	-		04.	4.0	101	-	4	. 23	3	443		32.5		.38		0	. 51	20	.11	-		23	4	. 80			
JON.	AC	1.59	4	N		~	V	N		o.	-	-	.98	*	0.	00	4	. 50	0		~	1.33	-	-:	0	0	-	.67	96	40		-
MAY					Ø.	•	12	0		N	C.	40	.86	4	0		40	4.		50	~	100	-	0	100		10		~	-		
APR.	U	-		96.	. 30	N	42	2.91	0.	4	1.66	10		1.44		1.01	15.	4	1.81	0	-	+0.	N	TRACE	-	•00•	-	. 58		10	+	
MAR.		3		U	0.	60.	O	-	U	00	3	1	.63	4	. 7	-	0	~	2	4	24		-	. 38	0	.07	9	8	00.	.35		
FEB.		1.95	2.03		00.	20	.01	0	.18	0	AC		.18		4	1.00	- 46		.17	. 2.	TRACE	90.	.51	1.39	TRACE	.55	2.04	1.92	.80	.00		
JAN.		TRACE		. 51	.02	0	TRACE	-	.06		90.			N	AC	8		8	1.16			8		-	0		0		. 56			
YEAR	6.5		4.7	48	64	30	215	52	53	34	55	56	57	28	5.5	09	19	62	63	99	69	99	67	68	69	70	71		73	74	MEAN	-

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PRECIPITATION

GUANTANAMU BAY, CUBA

24 HOUR AMOUNTS IN INCHES

MONTHS	4.12	7.22	3.79
DEC.	19:1	•53	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NO N	14.	96.	127.
OCT.	2.75	3.23	2.28
SEP.	4.12	• 50	11.360
AUG.	.51	*6.	787.
JU.	114	10.	98.86
ž.	1.52	64.	95
MAY	2.91	7.22	1.54
APR.	1.55	2.72	. 850 096
MAR.	.41	60.	58.9
<b>.</b>	TRACE.	40.	92.07.
JAN.	TRACE . 82	11.	1.628
YEAR	75	44	MEAN . S. D. TOTAL OBS.

NAVWEASERVCOM

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## **EXTREME VALUES**

FROM DALY OBSERVATIONS

45-77

GUANTANAMO BAY, CUBA

11706 STATION

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/BASED UN LESS THAN FULL MONTHS/

MONTH JAN.	4.4	48	54 .70	56 .34	57	58	56	09					MEAN	S. D.
FEB.		28		4		.32			-	P				
MAR.		2				2								
APR.							293							
MAY														
JUN.														
JUL.								30						
AUG.	30.					30								
SEP.					1.34									
OCT.			28											
NOV														
DEC.														
MONTHS	PRECIP	DAYS	PRECIP	DAYS	DAYS DAYS	DAYS	DAYS	DAYS						

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NAVWEASERVCOM

## **EXTREME VALUES**

SNOW FALL
(FROM DAILY OBSERVATIONS) 63-64, \*

611

GUANTANAMU BAY, CUBA

24 HOUR AMOUNTS IN INCHES

24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		MAR.	APR.	MAY	JON.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MONTHS
				0.		0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0	0.	0.	0.	0.	.0	0.	0.
	0.		0.	0.	0.	0.	0.	0.	0.	0.		
		0.	0.	0.	0.	0.	0.	0.	0.		.0	
	0.	0.	0.	0.		0.	0.	0.		0.		
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	0.	0.	0.	0.	0.	0.				0.		
			0.	0.				0.	0.	0.	0.	
	0.		0.	0.		0.	0.					
					C	0.						
						:						
	1											
					•							
				0.								
	0	0.	0.	0.	0.	0.	0.	0.	0.	0	0.	0.
			0.	0.	0.	0.	0.	0.	0.	•	0.	
	0	0.	0	0	0.	0.	0.	0.	0.	0.	.0	•
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	0	0.	0.	0.	0.	0.	0.	0.	0.	0.	.0	•
71 .0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	•
72	0.	0.	0.	0.	0.	0.	0.	0.	0.	•	0.	•
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	•
74	0.	0.	0.	0	0	0.	0	0	0.	0	0	•
MEAN												
S. D.												
TOTAL OBS.												

NAVWEASERVCOM

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FROM DAILY OBSERVATIONS)

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45-53, 55,

GUANTANAMO BAY, CUBA

11706 STATION

0 0 0

24 HOUR AMOUNTS IN INCHES

ALL	00	•							00.	000.	6881
*0											
DEC.	00	0.								000.	
NOV.	00	0.							00.	.000	570
OCT.	0.0	0.							00.	000.	558
SEP.	00	0.							00.	000.	570
AUG.	00	0.							00.	000.	589
JUL.	00	0.							00.	000.	651
JON.	00	0.							00	0000	570
MAY	00	0.							00.	000.	682
APR.	00	0.							00.	000.	600
MAR.	00	0.							00.	000.	964
E.	0.0	0.							00.	0000	619
JAN.	00	•							00.	0000	589
YEAR	75	11							MEAN	S. D.	TOTAL OBS.

0

0

0

0

0

0

0

0 0 0 0

SNOWFALL FROM DAILY OBSERVATIONS) 63-64, \*

Z4 HOUR AMOUNTS IN INCHES /BASED ON LESS THAN FULL MONTHS/ 45-530 550

GUANTANAMU BAY, CUBA

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MONTHS
45				29.0		29.0							SNOFALL
47			28.0									30	SNOFALL
48		28									29.0		SNOFALL
69						27.0				30		30	SNOFALL
50	30												SNOFALL
51								0	0	0		0	SNOFALL
52		0	c			0	0	0					SNOFALL
53			0			. w			0	0	0	c	SNOFALL
54	0	0	0	0	0	0	0	0	0	0	0	0	SNOFALL
55	0	0	0	0	c			0	0	0	0	0	SNOFALL
56	0	0	0	0	0	0	0	0	0	c	c	0	SNOFALL
57	0	0	0	0	0	0.1	0	0	0	0	0	0	SNOFALL
58	0	0	0	0	c	0	0	0	0	0	0	0	SNOFALL
59	0	0	0	0	0	0	0	0	0	0	0	0	SNOFALL
09	Ö	0	0	c	c	c	0	0	c	0	c	•	SNOFALL
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

0

SNOWFALL
FROM DAILY OBSERVATIONS

63-64, #

617

STS

45-53, 55,

GUANTANAMO BAY, CUBA

11706 STATION

0 0 0 0 0

24 HOUR AMOUNTS IN INCHES /8ASED ON LESS THAN FULL MONTHS/

ALL	SNOFALL	SNOFALL	SNOFALL	SNOFALL	SNOFALL	SNOFALL							
DEC.	0												
NOV.	0	0	0	0	0								
OCT.	0	0	0	0	0								
SEP.	0	0	0	c	0								
AUG.	0	0	0	0	0								
JUL.	0	0	٥	0	٥								Ī
NO.		0	o	0	0								
MAY	0	0		0	0								
APR.	0	0	c	0	0								
MAR.	0	0	c	0	0	0							-
5	0	0	0	0	0	0							-
JAN.	0	0	0		ô	Ó							-
YEAR	91	29	63	99	92	67					MEAN	S. D.	TOTAL ORS

0

0

NAVWEASERVCOM

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0

SNOW DEPTH (FROM DAILY OBSERVATIONS)

63-64, 66-77

48-531 550

DAILY SNOW DEPTH IN INCHES

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MONTHS
54													
4 4												0	
64	0	0		0	0		0	0	0		0		
20		0	0	0	0	0	0	0	0	0	0	0	
51	0	0		0	0	0	0				0		
52	0			0	0				0	0	0	0	
N 10	0	0		0	0		0	0					
55						0	0						
56													
75													
200											*		
09													
19						0							
20					•								
9 9	0				•								
68													
99	0	0	0	0	0	0	0		0			0	0
67				0	0	0	0	0	0	0	0	0	
68	0	0		0	0	o	0		0			0	9
69	0	0	0	0	0	0	0		0			0	0
70	0	0		0	0	0	0		0			0	Ü
7.1	0	0		0	0	0	0		0			0	Ü
72	0	0		0	0	0	0		0			0	J
73	0	0		0	0	0	0		0			0	9
74	C	0		0	d	d	0		0			0	
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

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GUANTANAMO BAY, CUBA

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SNOW DEPTH

63-64, 66-77

DAILY SNOW DEPTH IN INCHES

48-530 550

GUANTANAMO BAY, CUBA

STATION

**0**0.0

	00	0	TTT	TIT	TIT	000
MONTHS						000
DEC.	00	0				0000
NO V	00	0				0.00
OCT.	00	5				0.00
SEP.	00	0				0.00
AUG.	00	0				0000
JI.	00	0				0000
Ž.	00	0				0000
MAY	00	0				0.00
APR.	00	0				0.00
MAR.	00	0				0.000
	00	0				0.000
JAN.	00	0				0.000
YEAR	75	=				MEAN S. D.

NAVWEASERVCOM

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SNOW DEPTH

48-53, 55,

GUANTANAMU BAY, CUBA

63-64, 66-77

/BASED ON LESS THAN FULL MONTHS/

YEAR	JAN.	FB.	MAR.	APR.	MAY	J. S.	JU.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL
45				0	0	0	0	0	0	٥	c	0	SNO DPTH
40	0	0	0	0	0	0	0	0	0	0	0	0	SNO DPTH
47	0	0	0	0	0	0	0	0	0	0	0		SNO DPTH
48	Ö	0	0	0	0	0	0	•	0	0	29 0		SNO DPTH
64						0,42				30 0		300	SNC DPTH
90	300												SNO DPTH
51								0	0	0		0	SNO DPTH
52		0	C			0	0	0					SNO DPTH
53			0			0			0	0	c	0	SNO DPTH
5.6	0	0	0	0	0	0	0	0	0	0	c		SNO DPTH
55	0	0	0	0	c			0	0	0	0		SNO DPTH
96	0	0	0	0	0	0	0	0	0	0	0		SNO DPTH
57	0	0	0	0	0	0	0	0	0	0	0		SNO DPTH
58	Ò	0	0	0	0	0	o	0	0	0	c		SNO DPTH
59	d	c	o	o	0	c	0	0	c	0	c	c	SNO DPTH
MEAN								*					
TOTAL OBS.						Ī							

2

0

0 0 0 0

(FROM DAILY OBSERVATIONS) SNOW DEPTH

46-53, 55,

GUANTANAMO BAY, CUBA

617

63-64, 66-77

/BASED ON LESS THAN FULL MONTHS/

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL
09	0	0	0	0	o	0	c	o	0	0	0	0	SNO DPTH
61	0	0	C	0	0		0	0	0	0	0	0	SNO DPTH
62	0	0	0	0	0	0	0	0	0	0	0	0	SNO DPTH DAYS
63	ó	0	0	0		0	c	0	0	C	C	0	SNO DPTH
40		0	0	0	0	0	0	0	0	0	0	0	SND DPTH
68	o	0	0	0	c	0	0	0	0	0	0	0	SNO OPTH
67	0	0	0										SNO DPTH
													1
			1. 10 10 10 10 10 10 10 10 10 10 10 10 10										
MEAN													
S. D.													
TOTAL OBS.													

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NAVWEASERVCOM

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## DAILY EXTREME AMOUNTS

GUANTANAMO BAY, CUBA

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION NAME

STATION 11706

MONTH

DATE

Σ

INCHES

DATE 1956

MM

DAY

1967

1957 1958

0.22

0.51

6

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0.08

S 9

(-)

1963

1953

1.16

3

1

1962

0.08

1948

1969

2.08

53

1958

1970

8.81

0

1957

0,02

0 = 12 13 4 15 16 17 18 19 2 2 22 23 24 26 25

SNOWFALL

PRECIPITATION

1946-1977

YEARS

FEBRUARY

	DAY	-	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
PRE	INCHES	10.0	0.20	0.04	0.55	2.03		0.63		1.73	1.92	1.00	0.14	0.12	0.25	0.29			0.03		0,13	1.39	0.33	0.25	1.08	640	1.95		90.0	1	
PRECIPITATION GREATEST	MM		S		1,4	52		16	10	**	64	25	*	•	9	7	52	27	1		3	35	8	9	27	12	90	4	2	•	
NO	DATE	1961	1976	1952	1970	1947	1970*	1952	1950	-	-	1960	1958	1958	1960	8561	1461	7661	161	8461	8961	1968	9661	1961	1968	1954	1946	**161	1951	1972#	
80	INCHES																														
SNOWFALL	MM																														
	DATE																														

090	02.0	
14 19	224 19	
0.54	8.81	
31	Monthly	

1953

0.03

1976

1947

6

0.34

90.0 60.0

1968

2.27

4

1960

0.39

3 29 28

0.41

27

1960

1958

59

1,15

0,26

• ALSO ON EARLIER YEARS T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

52 1971

Monthly 2.04

## DAILY EXTREME AMOUNTS

GUANTANAMO BAY, CUBA

STATION NAME

STATION 11706

MARCH

DATE

MM

INCHES

DATE

MM

NCHES

DAY

0.58

1976

0.52

S

9

1947

1965

0.22

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SNOWFALL

PRECIPITATION GREATEST

1946-1977

YEARS

APRIL

\*9961

1977

0.09

1961

1954

1966

0.82

10 =

0.03

12

13 14 15 16 17

1972

0.84

21 1957 26 1967 26 1967 17 1966 29 1946 51 1961

0.63

1972\*

5.43

0.76 0.27

1964

1.99

Monthly

2 1963

0.00

1,16

20 21 22 23 24 25 26 27 28 59 30

0.68

8 19 1986 1959

T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD \* ALSO ON EARLIER YEARS

74 1952

Monthly 2.91

DIRNAVOCE ANMET - SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

MONTH

DAG

1848

## DAILY EXTREME AMOUNTS

JULY L

GUANTANAMU BAY, CUBA

STATION NAME

DATE

M

INCHES

1948

1.53 1.44 0.54

n

1.49

Z

DAY

1969

1971

1974

1.09

9

2,23 1.44 2.11 7.22 1.37 0.86

> œ 6

1969

1954 1954

1974

37

1965 1977

10

12 13 14

=

SNOWFALL

PRECIPITATION

MONTH

MAY

1945-1977

YEARS

	DAY	-	2	8	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	21
A S	INCHES	5.23	3.94					08.0	1.60	1.40	1.83	1.27		0.30			1.12		0.25	0.18		1.04	0.29		0,83	0.02		0.77		. 3	01.0	
PRECIPITATION GREATEST	MM	133	100	34	159	28	39	20	14	36	94	35	19	20	25	18	28	22	9	2	9	56	7	9	21	1	34	20	19	10	3	
NO.	DATE	1948	1948	1948	1948	1955	1975	£961	1963	1960	0961	1950	1950	9661	1957	6561	1976	1946	1966	9561	#5961	5161	€961	0961	7961	1969	9961	E 561	6961	6961	5961	
<b>ω</b> Ο	INCHES	INCHES																														
SNOWFALL	NANA																															
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DIRNAVOCE ANMET - SMOS

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T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD \* ALSO ON EARLIER YEARS

159 1948

Monthly 6.25

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

11706 STATION

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#### 5724 DAILY ABOUNTS MAR 1978

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

11706

IZENS LENGT

STATION

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GUANTANAMU BAY, CUBA

STATION NAME

MONTH

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SNOWFALL

PRECIPITATION GREATEST

1945-1977

YEARS

DAILY EXTREME AMOUNTS

MONTH AUGUST

	DAY		-	2	3	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly
PRI	OLI TOTAL	INCHES	*	1,00	69.0	1,32	0,89	1.47	0.27	0.38	0.26	0.17	\$0.0	0.24	89.0	1.47		0.62				0.48		2,70		1.30	84.0	1.89		2,28		•	29.5	2.75
PRECIPITATION		MM	11	22	16	34	23	37	1	10	1	3	-	9	17	37	8	10	31	18	28	12	44	69	14	33	12	64	54	58	10	17	19	10
NO.	T. F. C	DAIL	* 104	1969	9661	1963	1945	1970	1964	1966	1974	1974	1955	9461	1661	1960	1947	1955	1962	1973	1950	1959	1955	1955	1977	1965	1964	1953	1970	1961	1964	1966	1950	1964
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Monthly

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1959 1973 \* ALSO ON EARLIER YEARS

T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

## DAILY EXTREME AMOUNTS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

GUANTANAMU BAY, CUBA

STATION 11706

STATION NAME

SEPTEMBER MONTH

DATE

Σ

INCHES

DATE

Z

DAY

1950 1950

22

0.88 0.88 99.0 0.19

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SNOWFALL

PRECIPITATION GREATEST

1945-1977

YEARS

OCTOBER

MONTH

DATE SNOWFALL Σ INCHES 50 1956 45 1971 DATE 1966 1953 1963 70 1976 1949 175 1956 146 1956 54 1950 1973 1962 40 1953 1963 81 1956 32 1943 18 1963 1961 1965 63 1963 1951 27 1958 22 1958 64 1973 24 1956 1961 891 45 1951 31 1971 18 1951 PRECIPITATION GREATEST 129 66 89 36 Z 2.75 1.41 1.06 6.88 5.76 1.96 1.56 4.63 2,31 3,18 2.02 1.24 0,95 0.39 7.60 2,50 5.07 2.13 6.61 1,26 0,86 3.66 2.51 2,36 0.73 0.71 INCHES DAY 2 9 10 Ξ 12 13 4 15 16 17 8 19 2 22 28 30 1 œ 6 2 23 24 25 26 27 29 31

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Monthly

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\* ALSO ON EARLIER YEARS

T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

193 1963

7.60

Monthly

5 1967

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1968

1971

18 1969

3.08

Monthly

### NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION 11706

GUANTANAMO BAY, CUBA

NOVEMBER MONTH

STATION NAME

DATE

MM

INCHES

DATE

1969

18 MM

> 3.08 2.34 0.28

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1945

33 1945

SNOWFALL

PRECIPITATION GREATEST

DAY

1945-1977

YEARS

DAILY EXTREME AMOUNTS

DECEMBER

DATE DATE DATE DATE DATE DATE DATE DATE	INCHES INCHES
SNOWFALL GREATEST MM	

0.55 2.70 1.07 2.06 2.06

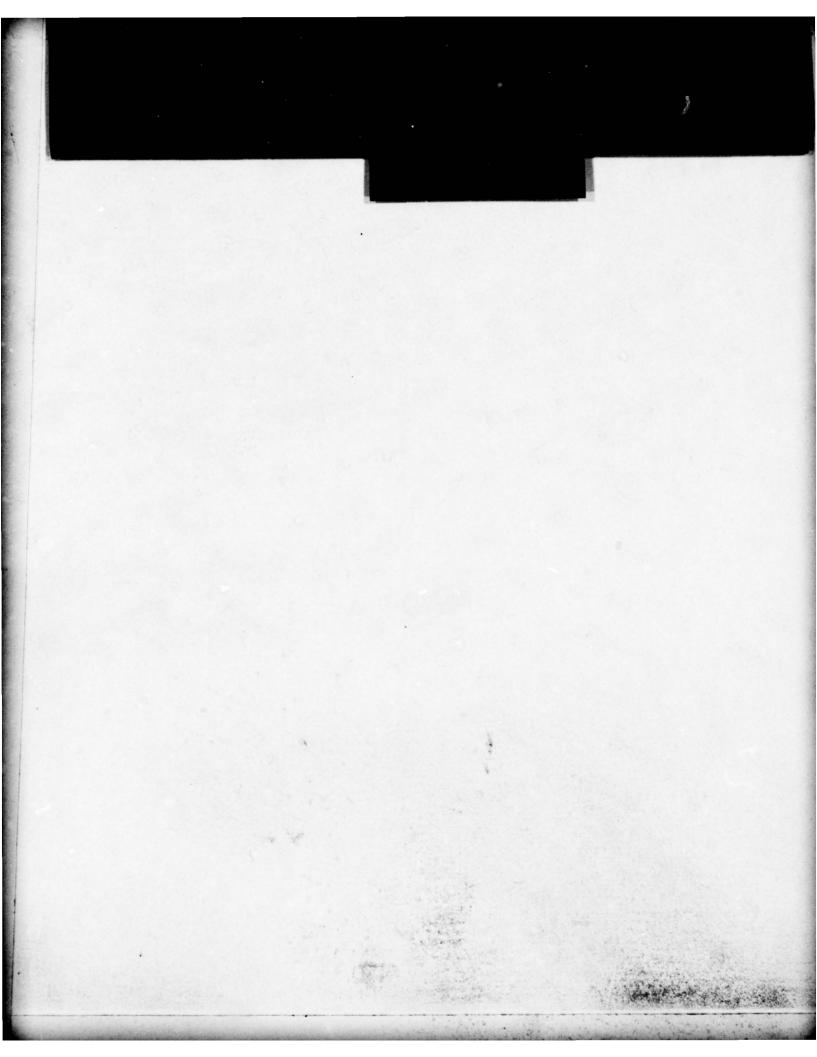
YEARS
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NO
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T – TRACE, AN AMOUNT TOO SMALL TO MEASURE BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

47 1966

Monthly 1.85

DIRNAVOCE ANMET - SMOS



Asheville, N. C.

### PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided. period. Every month of a year must have valid observations present before the ALL MONTHS value is selected When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. selected and printed. These values are then used to compute means and standard deviations for the entire for that year. Means and standard deviations are computed when four or more values are present for any ;

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments Percentages are shown by both direction and speed, and in addition the mean Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a wind speed for each direction. of Beaufort classifications. 5

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- Three tables are prepared for all surface winds included, and for all years combined as follows:
- (1) Annual all hours combined
- (2) By month all hours combined
- (3) By month by standard 3-hour groups
- A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

SURFACE WINDS

GUANTANAMO BAY, CUBA

0.0

DAILY PEAK GUSTS IN KNOTS

YEAR	JAN		£		MAR.	APR.	¥	MAY	ž	JUL	j	AUG.	SEP	0	OCT.	NOV		DEC.	MONTHS	HS
45						ESE	Z	346	50	4		w		ESE	2		36E			
46	5	31	ESE	37ES	10		30ENE	30%	×	SES	7	*	Z	BES	30	SE	101	33	ESE	2
47				SE	N		u.	w		89	8		SSE	N		SE	41			
4.8	SE	38	ESE 1	7	NE 35		JESE.	276	VE 3	N	32ES	w	55	Z T T	326		301		SS	3
**	=			4	50)	Z E	325E	10			3	w	w	120						
20	w	*		-		w	3	1		-	2		SE	75	42		SENNE			
51				1		ESE	223	32		D	E	w	w	5.00	28		BE	31		
52	w	0	44	2		ESE	S	30E	or m	S	0		111	=	30		BENE	28	S	
23	w	-		1		w S	SAESE	40E	101	OE S	Z		143	3	25	w	24E	53	ESE	4
34	w	20		9			14.0	Z	~	-	W	w	Z	3	2	w	346	30		
33	ESE	80		4		ESE	MIN	153		20	S	ш	SSE	35	3		BONE	31	S	a a
36	S	-	ш	0		ESE	17	103	-	50	00	ш	111	055	1	***	PLENE		S	
57	w	8	-	300	NW ZE	ESE	385	Z	503	9	32ES	SE 32		34NE	4	ESE	32SE	31		38
58	I SI	-	2	0		SE	3				4		Z	SB	4.3		BENE			
56	z	9		9 E			12.7	2		600	-	31	ESE.	050	-	221	BESE		w	(48
09	ESE	0		47		37	K	245		1	N	93		3	-		BINNE		SE	*1
10	ESE	33		100		ES ES	223	112	57	S	-	w	S	73	-		24ESE		5	-
62	w	-		2		ESE	27ESE	24		0	9		SSE	65	-		392	83	ш	m
63	w	-0		4	SE 32	w	11.5	295	=	-	N	111	5	-	0		MAN	26	SE	80
40	ESE	O	ш	45		ш	0	144		60	•		Z	SIS	3		SPESE			
63	w	0		N		SE	PESE	28E		7	5	2	141	S	-0		SENNE		ш	~
90	ш	(4)		त्स		3		5		2	4	m	-	SB	-		B	27	Z	-
61	SE			111		2	SOSE	-	~	0	2	~	S	S	.0		6			
68	ESE			9		-	3115	2		0	2855	w	SE	-	4		285	35	SE	128
69	Z	-		8		127	NON	355		0	5	m	:45	9	0		MOE	58	Z	CT.
10	Z	3	ш	2		ESE	3	S	~	00	28	•	Z	73	8	-	ZYENE	27	ZZ	7
11	LEX	100		=		14	305	-		5	7	•	121	2.4	8	0	5209	58	=	-
72	60	-		3		1.3	333	-	N	5	=	m	C	72	0	~	2412	34	12	4.5
13	1.6	O.		1		11	1012	-	2	7	2	m	-	77	-		3707	33	12	9
74	11	34	12 2		32	20	4622		2	9	9	~	-	8	34		2808	30	02	*
MEAN																				
S. D.																				
TOTAL OBS.																				

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SURFACE WINDS

GUANTANAMO BAY, CURA

DAILY PEAK GUSTS IN KNOTS

	37	m n	200
MONTHS	77	21	10.
DEC.	32	92	2902
۵	2505	60	~
NOV.			6 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	3010	5062	
OCT.	3711	60	8
SEP.			8 N C
	3212	2102	11881
AUG.			4.92
JUL.	2902	126	92.9
_	2506	410	9 9
JON			16.2
<b>*</b>	3112	O	90.9
MAY	2835	23	
APR.			31.00
	3210	1162	042
MAR.			31.0
FEB.	3008	58	30.00
	1162	2425	50
JAN.	10 2	2 46	910
AR AR			Z 0 0
YEAR	75		MEAN S. D.

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SURFACE WINDS

GUANTANAMU BAY, CUBA

11705 STATION

45-77

/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH!

MAY JUN. JU			SSE 33			w	ESE 33							
APR. MAY		30					<u>-</u>							
			SSE				ESE 2							
JUL.			33			SE 30	33							
AUG. SEP.	ESE 34							ESE 30						
Z .	•	ENE 28	E 30NNW											
NOV. DEC.			W 24NE 35						E 26					
MONTHS	WINDS	WINDS	5 WINDS DAYS	WINDS	WINDS	WINDS	WINDS	MINDS	6 WINDS	WINDS				

0

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6

(3)

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NOURS (L.S.T.) JAN (FROM HOURLY OBSERVATIONS) 73-77 ALL WEATHER CONDITION GUANTANAMU BAY, CUBA NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

19.4 13.5 4.5  1.3 .0  1.3 .0  1.3 .0  1.3 .0  1.3 1.3  1.3 1.3  1.3 1.3  1.4 1.9	SPEED (KNTS) DIR.	1.3	9.	7 - 10	11 . 16	17 - 21	22 - 22	28 - 33	34 . 40	4.4	48 - 55	8	*	WEAN WIND SPEED
1.3 .6 1.9 .666666666	z	19.4											37.4	3.8
1; 3 ; 6 1; 3 ; 6 1; 43.2 34.8 7.7 1:9	N.	5.8											6.5	6
1636 6 13 6 13 6 13 6 19 6 19	¥	1.3											1.9	2
13.5 12.9 2.6 1.9 (43.2 34.8 7.7 1.9	ENE	1.3											1.9	3.3
1.6 1.3 1.3 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	-												9.	0.4
11.3 1.3 2.6 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	ESE													
13.5 12.9 2.6 1.9 (43.2 34.8 7.7 1:9	*													
13.5 12.9 2.0 1.9 (43.2 34.8 7.7 1:9	SSE													
13.5 12.9 2.0 1.9 43.2 34.8 7.7 1:9	•													
13.5 12.9 2.6 1.9	SSW			9.									9.	10.0
13.5 12.9 2.6 1.9	SW													
13.5 12.9 2.6 1.9	WSW													
13.5 12.9 2.6 1.9	*													
13.5 12.9 2.6 1.9	WWW	9.	1.3										1.9	•
13.5 12.9 2.6 1.9	*	1.3	1										2.6	3
43.2 34.8 7.7 1.9	NN	13.5	12										31.0	4.6
43.2 34.8 7.7 1.9	VARBL													
34.8 7.7 1.9	CALM	$\bigvee$	12,3											
		43.2	34.8	7.7	1.9								100.0	3.5

0

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155

TOTAL NUMBER OF OBSERVATIONS

0

0

0

DIRNAVOCEANMET SMOS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

ALL WEATHER

COMDITION

73-77

GUANTANAMO BAY, CUBA

11706

0

YEARS

HOURS (L.S.T.)

NAN

SPEED (KNTS) DIR.		• •	7 - 10	11 . 16	17 - 21	12 - 17	28 - 33	34 - 40	4.0	48 - 55	8	×	MEAN WIND SPEED
z	14.2	17.4	3.9									35.5	4.1
N.	12.3	7.1	1.3									20.6	3.6
w X	1.9	4.5										6.5	3.9
ENE	•											9.	3.0
		0.										9.	4.0
ESE	9.											9.	2.0
35													
SSE													
s													
SSW													
SW													
WSW													
*													
WNW		9.										9.	4.0
WW		2.6		9.								3.2	7.4
NNN	5.9	9.0	1.9	2.6								20.0	5.3
VARBL													
CALM	X	X	X	X	X	X	X	X	$\bigvee$	$\bigvee$	X	11.6	

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155

TOTAL NUMBER OF OBSERVATIONS

100.0

36.1

MEAN WIND SPEED

12

48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 . 21

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7 - 10

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SPEED (KNTS) DIR.

22.6

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Z Z

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5.5

14.8

281

SURFACE WINDS

200

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAMO BAY. CUBA

11706 STATION

YEARS

NOURS (L.S.T.)

NAL

0

CONDITION

TOTAL NUMBER OF OBSERVATIONS

155

4.0

100.0

7.1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

- SS - SS

SW WSW \* WW

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5.6

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NW WNW VARBL CALM 3.9

5.2

0.65

34.8

0

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21.9

MEAN WIND SPEED

×

12

11 - 16

7 - 10

4.6

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SPEED (KNTS) DIR.

1.9

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PERCENTAGE FREQUENCY OF WIND

SURFACE WINDS

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

GUANTANAMO BAY, CUBA

WEATHER CLASS

ALL

73-77

YEARS

10 HOURS (L.S.T.)

NAC

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CONDITION

TOTAL NUMBER OF OBSERVATIONS

155

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N N VARBL CALM

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SSW 3K

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SMOS DIRNAVOCEANMET

0 0 0

11706 STATION

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

155

TOTAL NUMBER OF OBSERVATIONS

2886

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

100

13 HOURS (LS.T.)

MAC

YEARS

73-77

GUANTANAMO BAY, CUBA

11706 STATION

SURFACE WINDS

ALL WEATHER COMBITION

WEAN WIND SPEED	9.5	7.8	6.3	12.3	13.1	12.5	11.1	10.3	9.1	8.5	9.5		1	1000	-	9.3			11.2
*	2.6	3.2	1.9	1.9	12.3	29.0	18.1	18.1	6.9	2.6	1.3			9.		1.9		0.	100.0
8																		X	
48 - 55																		$\bigvee$	
41.4																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 . 27								9.										$\bigvee$	9.
17 - 21					9.	1.9	1.3											X	3.9
11 - 16	0	0.	0.	1.3	0.6	20.0	0.6	4.5	1.9	0.						9.		X	49.0
ò1 · 2	1.3	1.3	9.	9.	2.6	3.8	6.5	11.6	3.9	9.	1.3			9.		9.		X	37.4
4.4	9.	9.	4			1.3	0.	0.		1.3						9.		X	6.9
1.3	1						0	5	9.									X	2.6
SPEED (KNTS) DIR.	z	ZZ	Z	ENE	-	ESE	25	SSE		NSS.	*S	WSW	*	WWW	MM	ANN	VARBL	CALM	

MEAN WIND SPEED

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12

. 55

. 47 7

34 - 40

22 - 27

17 - 21

11 . 16

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SPEED (KNTS) DIR.

10.0 10.5 11.7 12.3

12000

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SSW WSW.

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25 SE 52

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42.6

7:1

ORRE

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

001

SURFACE WINDS

73-77 ALL WEATHER

YEARS

CONDITION

16 HOURS (L.S.T.)

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TOTAL NUMBER OF OBSERVATIONS

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DIRNAVOCEANMET SMOS

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WNW \* \* \* VARBL CALM

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11706

GUANTANAMO BAY, CUBA

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAMO BAY, CUBA

11706

YEARS

HOURS (L.S.T.)

NAL

CONDITION

Z	4.6	7 - 10	1 . 16	17 . 21	22 - 27	28 . 33	34 - 40	41.47	48 - 55	% AI	×	WIND
1.3	3.2	3.2	1.3								7.7	7.7
4	3.2	1	1.9								14.2	7.9
	3.9	7.	1.3								12.9	7.9
1.3	3.5	\$	9.								10.3	7.4
2.6			1.9								23.9	6.7
		2.0									7.1	6.9
	4.3	•									5.2	5.5
1.3	1.9	1.3									4.5	5.0
9.	1.3										1.9	4.3
	0.		9.								1.3	10.0
	1.3											5.0
		1.9	9.								2.6	9.5
		9.									9.	7.0
			9.								9.	11.0
	1.3			9.							1.9	9.7
X	X	X	X	X	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	X	$\bigvee$	3.9	
7.1	40.6	38.7	0.6	•							100.0	6.9

0

9#90

0

0

DIRNAVOCEANMET SMOS

0

0

0

155

TOTAL NUMBER OF OBSERVATIONS

3

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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155

TOTAL NUMBER OF OBSERVATIONS

0

3

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77 WEATHER

GUANTANAMO BAY, CUBA

11706 STATION

0

0

0

0

0

22 HOURS (L.S.T.)

COMBITION

MEAN WIND SPEED	5.3	4.5	4.4	4.0	5.8	3.0	5.0	2.0		10.0		4.0	4.5	5.0	5.3	4.5			
*	17.4	16.8	14.8	6.5	3.2	9.	9.	1.3		9.		9.	£ • 1	6.1	5.8	7.41		7.41	
%																		X	
48 - 55																		X	
41 - 47																		X	
34 - 40																		X	
28 - 33																		X	
22 - 27											,							X	
17 - 21																		X	
11 . 16	9.														9.	9.		X	
7 . 10	3.2	2.6	1.3	9.	1.3					•				9.		3.5		X	*
•	0.6	7.7	6.6	3.0	1.3		0.					9.	1.3	•	3.2	3.2		X	
1.3	4.5	6.5	3.9	1.9	5.			1.3						•	1.9	7.1		X	1
SPEED (KNTS) DIR.	z	N.	¥	ENE		ESE	35	SSE	s	SSW	SW	WSW	*	WNW	¥	NNN	VARBL	CALM	

8628

1240

TOTAL NUMBER OF OBSERVATIONS

5702 SURFACE WINDS JAN 78

## NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

E

SURFACE WINDS

73-77 ALL WEATHER COMBITION

ALL HOURS (L.S.T.)

WEAN WIND SPEED	8.4	9.4 6	7.8 5.2			-	4 10.3		3 7.9	1.0 8.5	0.8 9.	7.7	9.6	0.6 6.0	7 5.5			8	
*	21.6	13.6		4.4	6.9	8.5	5.4	4.3	2.3	-	•	•	•	•		11.5		6.8	0
X AI																		$\bigvee$	
48 - 55																		$\bigvee$	
41.4																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27								7.										$\bigvee$	
17.21				**		.5	.2									1.		$\bigvee$	
91 - 11	1.0	.5	4.	9.	3.3	5.0	2.3			2.	-:	1.			.2	1.1		X	
7 . 10	3.1	1.9	1.5	1.0	5.4	2.0	1.9	5.6	1.5			.2	.2	.2		1.7		X	7
• •	10.1	5.5	3.9	1.4	2.0	6.	5.	5.	-		.2	.2	.2		1.0	4.5		X	
::	7.5	5.7	2.0	1.0	0.	.2	7.	3.	2.				7.	.2		4.1		X	
SPEED (KNTS) DIR.	z	N.	¥	FRE	-	ESE	*	SSE	•	SSW	×s	WSW	*	WWW	¥	NNN	VARBL	CALM	-

DIRNAVOCEANMET SMOS

11706 STATION

CUANTANAMO BAY, CUBA

MEAN WIND SPEED

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128

2.5

5.7

. 2.1

25.5

0

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NOURS (L.S.T.)

FEB MONTH

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12.0

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9.0

37.0

4.8

2.1

3.0

15.6

2.1

WNW N N

\*

WSW WSW

SSW

\*

0

10.6

33.3

CALM

VARBL

14.9

100.0

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

ALL WEATHER

CONDITION

17 - 21

11 . 16

7 - 10

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SPEED (KNTS) DIR.

8 2.18

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YAT!	
OBSERVATIONS	
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NCABER	
TOTAL	

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141

DIRNAVOCEANMET SMOS

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11706

GUANTANAMU BAY, CUBA

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

5702 SURFACE WINDS JAN 78

SURFACE WINDS

Q

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

0.4 HOURS (L.S.T.) FEB. YEARS 73-77 ALL WEATHER CONDITION GUANTANAMU BAY, CUBA

% WIND SPEED	38.3 4.3	10.6 3.1	4.3 5.1						.7 12.0				0.9 7.	4.3 5.3	31.9 4.9		9.5	
35 VI																	X	
48 - 55																	X	
41.4																	$\bigvee$	
34 - 40																	$\bigvee$	
28 . 33																	$\bigvee$	
22 . 27																	X	
17 - 21																	X	
11 . 16			.,						. 7					.7	. 7		X	
7 . 10	5.7														4.0		X	
;	18.4	4.3	2.1										1.	2.8	14.9		X	
-:	14.2	6.4	1.4												6.6		X	* * * * * * * * * * * * * * * * * * * *
SPEED (KNTS) DIR.	z	N N	¥	Z	ESE	25	SSE	•	SSW	SW	WSW	*	WWW	¥	NNN	VARBL	CALM	

E

DIRNAVOCEANMET SMOS

0

88

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

1526

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

# PERCENTAGE FREQUENCY OF WIND

SURFACE WINDS

	FEB	MONTH	10	HOURS (L.S.T.)	
FROM HOURLY OBSERVATIONS)	73-77	YEARS	ALL MEATHER	CIVAS	CONDITION
Note ville, No	GUANTANAMU BAY, CUBA	STATION NAME			

11706

100

0

MEAN WIND SPEED		7 3.1		4 6.5				+	-	7 12.0					1.0	1	•	*	
*	45.4	17.7	7.3	1.4	•					•					2.1	17.		4.9	
% AI																		X	
48 - 55							1											X	
41.47																		X	
34 - 40																		X	
28 . 33																		X	
22 - 27																		X	
17 - 21																		X	
÷ :	1.4															1.4		X	
7 . 10	3.5		.,												1.4	5.7		X	
• •	19.1		3.5	. 1												7.1		X	
.:	21.3	6.6	3.5		•											3.5		X	000
SPEED (KNTS) DIR.	z	NNE	a z	ERE		ESE	SE	SSE	8	SSW	SW	WSW	*	WWW	N	NNW	VARBL	CALM	

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DIRNAVOCEANMET SMOS

## SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NOURS (L.S.T.) FEB HONTH 73-77 ALL WEATHER CONDITION GUANTANAMO BAY, CUBA

1.3		9:+	7 . 10	91 . 11	17 - 21	22 - 27	28 - 33	34 - 40	41.47	48 - 55	% AI	*	MEAN WIND SPEED
	2.6	7.8	7.8	1.								25.5	5.1
	4.0	9.2		. 7								19.1	4.7
	2.0	5.0										11.3	4.0
	2.1	2.8	. 7									4.0	5.1
	1.	1.4		2.8								5.7	9.1
	-		1.4	2.8								4.3	12.7
			2.1	. 7	1.							4.3	10.5
		1.4	.7	. 7								2.8	8.3
												4.	0.4
	2.8											3.5	2.8
			. 7									4.	8.0
			.7									1.4	5.5
	2.8	2.1	1.4	2.1	. 7							9.2	7.6
$\bigvee$	$\langle \rangle$	X	X	X	$\bigvee$	0.6							
*	30.5	31.2	10.0	12.1	1.4							100.0	5.7

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141

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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11706

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MEAN WIND SPEED

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER GUANTANAMU BAY, CUBA

10.1 13.3 10.01 8.0 8.0 10.6 8.0 11.2 2.8 2.8 2.8 19.1 2.4 2.4 2.1 100.0 \* 12 . 55 4 . 47 7 34 - 40 28 - 33 22 - 27 .. 1.4 2.1 • 17 - 21 440000 44.7 11 . 16 40.4 7.5 3.5 . 7 - 10 8.5 -3 WNW Z WSW VARBL CALM SSW EN EN SE SE SW ž SSE \* s

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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FEB

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13 HOURS (L.S.T.)

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER COMBITION GUANTANAMO BAY, CUBA

0

16 HOURS (L.S.T.)

FEB

SPEED (KNTS) DIR.	:	•	7 . 10	1 . 16	17 - 21	22 - 27	28 - 33	34 - 40	41 . 47	48 - 55	VI 8	*	MEAN WIND SPEED
z			2.1	2.1								5.0	=
NNE			1.4	2.1								4.3	•
NE					.7							1.4	-
ENE				.7								4.	12
E			2.1	7.8	1.04							11.3	13
ESE			5.0	14.2	1.4							20.6	12
38			4.9	9								14.2	=
SSE			6.9	5.0								9.2	=
8		1.4		2	.7							14.9	6
SSW		2.8	5.0									8.5	-
SW			2.8	1.4								5.0	=
wsw			1.4	1.4								2.8	12.
*				.,	. 3							1.4	-
WNW													
N.W.												4.	12.0
NNN													
VARBL													
CALM	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	X	X	$\bigvee$	$\bigvee$	X	X	$\bigvee$	0.	
		4.9	41.1	46.1	4.0							100.0	11.3

TOTAL NUMBER OF OBSERVATIONS

0

0

0

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

73-77

GUANTANAMO BAY, CUBA

11706

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ALL WEATHER

Ten:

SURFACE WINDS

CONDITION

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19 HOURS (L.S.T.)

FEB

MEAN WIND SPEED	1.1	9.6	8.9	1.0	1.1	9.9	6.5	2.4	3.0	7.1	4.9	9.3	7.8		0.9	15.0			7.1
×	5.0	16.3	1.7	5.0	6.6	12.8	8.5	4.0	7.1	2.0	9.0	2.0	2.8					2.8	100.0
% Al																		X	
8 . 55																		X	
41.4																		X	
34 - 40				1														X	
28 - 33																		X	
22 - 27																		X	
17 . 21		1.										1.	4.					X	2.1
11 . 16		4.3	2.1			*					1.	1.4						X	12.1
7 - 10	3.5	8.5	2.8	2,1	5.7	4.3	3.5	2.1		2.8	1.4	1.4						X	38.3
9:+	1.4	2.1	2.1	1.4	5.5	3.3	7.2	2.8	2.1	2.1	2.1	1.4	2.1		1.			M	29.8
÷:						3.2	2.1	1.4	5.0									X	14.9
SPEED (KNTS) DIR.	z	NN	¥	ENE	3	ESE	35	SSE	s	SSW	SW	WSW	*	WNW	NN	NNW	VARBL	CALM	

MEAN WIND SPEED

SURFACE WINDS JAN 78

5,2

3.3

5.0

6.5

2.5

SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

GUANTANAMO BAY, CUBA

ALL WEATHER

73-77

YEARS

22 HOURS (L.S.T.)

FEB

CONDITION

*	15.6	15.6	12.8	2.8	5.0	2.1		1.4		2.8	1.4	2.1	2.1	L.	2.1	14.9		17.7
95 Al																		X
48 - 55																		X
41 - 47																		X
34 - 40																		$\setminus$
28 · 33																		$\bigvee$
22 - 27																		$\setminus$
17 - 21																		$\bigvee$
1 . 16	1.4	. 1														.7		X
7 - 10	3.5	5.7	2.1									.,	1.	.7	.7	5.0		X
• •	9.2	5.0	7.1	1.4	1.4					1.4	1.4				1.4	7.1		X
.:	1.4	6.4	2.8	1.4	2.8	2.1			. 7	. 7		. 7	٠,			2,1		X
SPEED (KNTS) DIR.	z	NN	¥	ENE		ESE	38	SSE	s	SSW	SW	WSW	*	WWW	×	NNW	/ARBL	CALM

TOTAL NUMBER OF OBSERVATIONS

141

4.5

8400

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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11.5

MEAN WIND SPEED

11.2 9.1

2.2

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4 4 10

0 4 0 4 6

6.

2 2 2 2 2 2 2 3 4 3 4 3 4 3

-

1.4

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SSW

8

1.3

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WSW

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NN. VARBL CALM

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9.5 5.7

1.6

2.2

14.3

2.0

1.07

2.9

100

SURFACE WINDS

3

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

73-77 ALL WEATHER

ALL HOURS (L.S.T.) FEB HONTH

TOTAL NUMBER OF OBSERVATIONS

1128

6.9

100.0

1.8

16.1

24.3

28.6

22.1

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7.0

DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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7 - 10

1.3

SPEED (KNTS) DIR.

34 . 40

. 33

78

22 - 27

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GUANTANAMU BAY, CURA

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YEARS

CONDITION

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5702 SURFACE WINDS JAN 78

## SURFACE WINDS

100

NOURS (L.S.T.)

MAR

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER GUANTANAMO BAY, CUBA

CONDITION

YEARS

MEAN WIND SPEED	4.4	4.2	4.0	5.5	2.4	2.0						5.0		3.0	4.0	4.4			3.6
×	29.0	11.0	4.5	1.3	3.2	9.						9.		3.9	6.9	24.5		14.8	100.0
<b>3</b> 6 Al																		$\bigvee$	
48 . 55																		X	
41.47																		X	
34 - 40																		X	
28 - 33																		X	
22 - 27																		X	
17 - 21																		X	
11 . 16																		X	
7 - 10	3.0	.0	9.	9.												4.5		X	12.3
• •	10.3	6.5	1.9	9.	9.							9.		9.	3.9	11.0		X	36.1
::	12.9	3.9	1.9		2.6	9.								3.2	2.6	0.6		X	36.8
SPEED (KNTS) DIR.	z	N.	2	ENE		ESE	35	SSE	s	SSW	SW	WSW	*	WWW	WW	NNW	VARBL	CALM	

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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11706 STATION

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155

TOTAL NUMBER OF OBSERVATIONS

0

155

TOTAL NUMBER OF OBSERVATIONS

355

HOURS (L.S.T.)

MAR 04

YEARS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

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SURFACE WINDS

73-77 ALL WEATHER GUANTANAMO BAY, CUBA

CONDITION

3.2 5.0 4.4 4.4 3.6 MEAN WIND SPEED 37.4 3.2 34.2 5.8 100.0 128 48 - 55 41 . 47 34 - 40 28 . 33 22 - 27 17 - 21 11 . 16 4:5 6.1 7 - 10 5.2 9. 1.3 40.0 4.6 0 2 2 2 3 44.5 SPEED (KNTS) DIR. WSW WSW WNW NX. VARBL CALM ZZ Z Z SSW ž - 25 22 22 25 22 22 22 \* 0

DIRNAVOCEANMET SMOS

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TOTAL NUMBER OF OBSERVATIONS

5702 SURFACE WINDS JAN 78

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

MAR	MONTH	07	HOURS (L.S.T.)	
73-77	YEARS	ALL WEATHER	CLASS	COMBITION
CUNHTANAMO BAY, CUBA	STATION NAME			

19. 4 16. 1 4.5 19. 4 16. 1 4.5 11. 6 6.5 3.2 3.2 3.2 3.2 3.4 3.5 3.5 3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7
* 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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155

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

2

SURFACE WINDS	MAR	MONTH	10	NOURS (L.S.T.)	
PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)	73-77	YEARS	ALL WEATHER	CLASS	COMPITION
_	CUBA				
	BAY	STATE			
WEATHER SERVICE DETACHMENT SHEVILLE, NC	GUANTANAMO BAY.				

11706 STATION

MEAN WIND SPEED	4.2	4.5	4.7	5.2	11.3	11.0	10.4	6.8	5,3	5.0	7.0	0.4	3.7	3.5	1.8	3.5			
*	6.5	1.1	7.1	6.5	19.4	0.6	6.5	2.6	4.5	9.	2.6	6.5	5.8	2.6	3.2	6.5		5.2	
% AI																		X	
48 - 55																		X	
41.47																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27																		$\bigvee$	
17 - 21					1.9													X	
11 - 16			1.3	1.3	10.3	4.5	3.2											X	
7 . 10	9.	1.3			3.9	3.8	2.6	0.	1.3		1.3	9.	9.					X	
•	3.2	2.6	2.6	5.6	1.9	9.	9.	1.9	1.9	9.	9.	7.9	1.9	1.3		3.2		X	
÷.	5.6	3.2	3.5	2.0	1.3	9.			1.3		9.	1.9	3.2	1.3	3.6	3.2		X	
SPEED (KNTS) DIR.	z	N N N	¥	ER	w	ESE	35	SSE	s	SSW	SW	WSW	*	WWW	¥	NNN	VARBL	CALM	

### 13 HOURS (L.S.T.)

MAH

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

20

SURFACE WINDS

73-77 ALL WEATHER

YEARS

CONDITION

MEAN WIND SPEED	0.9		12.0		14.1	14.6	12.8	11.5	11.8	10.3	12.2	9.0	0.6						12.8
*	9.		9.		6.9	29.7	26.5	18.1	1.1	5.2	3.2	1.3	1.3					•	100.0
N 98																		$\bigvee$	
48 - 55																		$\bigvee$	
41.4																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27						9.												$\bigvee$	9.
17 - 21					1.3	6.9	1.3	9.	9.									$\bigvee$	10.3
11 - 16			9.		3.9	19.4	20.6	0.6	1.9	-	2.6	9.	9.					$\bigvee$	61,3
7 - 10					1.3	2.6	4.5	7.7	4.5	2.6	0.	9.						X	24.5
4.6	9.							9.		0.			9.					X	2.6
1.3						9.												$\bigvee$	9.
SPEED (KNTS) DIR.	z	N.	¥	ENE		ESE	35	SSE	s	SSW	NS.	WSW	*	WNW	WW	NNW	VARBL	CALM	

9999

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706 STATION

GUANTANAMO BAY, CUBA

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155

TOTAL NUMBER OF OBSERVATIONS

VARBL

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CALM

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SW WSW \* \*

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

E

SURFACE WINDS

73-77 ALL WEATHER

16 HOURS (L.S.T.)

MAR

CONDITION

SPEED (KNTS) DIR.

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WIND SPEED	8.0	10.3	7.0	0.6	13.5	13.5	12.1	11.3	9.8	0.6	12.1	12.2	10.0	9.0		11.9
*	9.	5.6	9.	1.3	4.6	21.3	25.8	17.4	5.8	4.5	2.6	3.9	9.	•	0.	100.0
% AI															X	
48 - 55															X	
41.4															X	
34 - 40															X	
28 - 33															X	
22 - 27					9.										X	9.
17 - 21					•	4.5		9.			•	9.			X	7.1
11 - 16		1.9		9.	5.5	13.5	17.4	8.4	1.3	1.9	1.9	1.9			X	54.2
7 . 10	9.		9.		3.6	1.3	4.0	8.4	4.5	1.3	2.6	1.3	•		X	32.9
9:+		9.				4.5				1.3				9.	M	5.2
ŗ															M	

DIRNAVOCEANMET SMOS

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GUANTANAMO BAY, CUBA

11706

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706

YEARS

19 HOURS (1.5.T.)

MAR

ALL WEATHER

CONDITION

SPEED (KNTS) DIR.

z z z z

SPEED	7.6				-				3.		-		6.6		9 40			7 .1
×	5.2	9.6	6.5	4.5	18.	14.8	11.6	5.8	6.5	5.8	1.9	2.6	3.8	9.	,•	9.	2.6	100.0
% %																	$\bigvee$	
48 . 55																	X	
41.47																	$\bigvee$	
34 - 40																	$\bigvee$	
28 - 33																	$\bigvee$	
22 - 27																	$\bigvee$	
17 - 21																	$\bigvee$	
3		2.6	1.3	0.	1.9	1.3	9.	9.			9.	1.3					X	11.0
7 . 10	3.9	3.9	5.2	3.9	6.7	5.8	3.9	1.9		3.2	1.3		1.3				X	43.9
:		5.6			5.8	7.7	5.8	1.3	3.2	1.3		1.3	1.9	9.	9.	0.	X	32.9
	1.3				.0		1.3	1.9	3.2	1.3							V	9.7

NW NNW VARBL

CALM

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SW WSW \* \*

- 32 22 23 ~

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DIRNAVOCEANMET SMOS

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155

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

WIND SPEED

×

. 33

78

22 - 27

17 - 21

11 - 16

7 - 10

1.3

SPEED (KNTS) DIR.

3.0

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18.1

3.2 1.9

9.0

4 4 4 0 U L U W W U

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### WINDS SURFACE

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706 STATION

ALL WEATHER

YEARS

22 NOURS (L.S.T.)

MAR

COMBITION

0

128 . 55 4 . 47 7 \$ 2 TOTAL NUMBER OF OBSERVATIONS

155

4.5

100.0

3.2

21.9

37.4

18.7

18.7

SOMS DIRNAVOCEANMET

18159-62181

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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VARBL NA NA

CALM

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6.9

MEAN WIND SPEED

12

48 - 55

41 - 47

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## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0 0

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706 STATION

0

0

ALL WEATHER

YEARS

MAH

ALL HOURS (L.S.T.)

CONDITION

7 - 10

4.6

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SPEED (KNTS) DIR.

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1.8

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TOTAL NUMBER OF OBSERVATIONS

1240

6.7

100.0

21.3

27.7

23.1

VARBL

CALM

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SSW

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WSW

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6.5

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DIRNAVOCEANMET SMOS

0

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAMO BAY, CUBA

11706

0

0

APR MONTH

2

NOURS (L.S.T.)

17 - 21

11 - 16

7 - 10

4.6

-3

SPEED (KNTS) DIR.

3.3

10.

Z

2.0

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Z Z

3.000 7.0 5.4.5 12,5 MEAN WIND SPEED 3.3 3.3 28.0 1.3 1.3 . 17.3 100.0 × 12 48 - 55 41 - 47 34 - 40 28 - 33 22 . 27

TOTAL NUMBER OF OBSERVATIONS

2.7

21.3

35.3

23.3

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WSW WSW

SSW

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2 2 2

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NNN VARBL CALM

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150

SMOS DIRNAVOCEANMET

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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150

TOTAL NUMBER OF OBSERVATIONS

4000 11.0 5.5 4.2 9.5 MEAN WIND SPEED 2.0 1.3 11.3 45.0 1.3 100.0 0.0 12 48 - 55 41 - 47 34 - 40 28 - 33 22 . 27 17 - 21 11 - 16 2.0 16.0 1.3 6.0 7 - 10 5.3 5.3 40.7 . 4.6 1 1 3 3 3 36.0 6.0 1.3 WW W NNW SPEED (KNTS) DIR. SSW WSW CALM ESE NS. SSE × 25 9 w

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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04 HOURS (L.S.T.)

APR

YEARS

73-77

GUANTANAMO BAY, CUBA

11706

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0

ALL WEATHER

CONDITION

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

0

(6)

TOTAL NUMBER OF OBSERVATIONS

NOURS (L.S.T.)

APR

YEARS

73-77

GUANTANAMO BAY, CUBA

11706

0

12095 62101

0

ALL WEATHER

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

.7 4.5		.7 3.7	3	2.0 9.0	1.3 10.0				.3 10.5	.7 12.0						.0		6.7	.0 4.5	The same of the sa
*	45.	14.7	*	2	-				-							26.0		•	100.0	
256																		$\bigvee$		
48 - 55																		$\bigvee$		
41 - 47																		$\bigvee$		
34 - 40																		$\bigvee$		
28 - 33																		$\bigvee$		
22 - 27																		$\bigvee$		
17 - 21																		$\bigvee$		
11 . 16				1.	.7					. 1								$\bigvee$	3.3	
7 - 10	6.1	1.3		1.	1.											8.0		X	18.0	
*:	22.7	0.4	2.0	۲.											•	8.0		X	38.7	
1:3	12.7	6.3														10.0		X	33,3	
SPEED (KNTS) DIR.	z	NN	¥	Z		ESE	35	SSE	s	SSW	SW	WSW	*	WNW	WW	NNN	VARBL	CALM		

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MEAN WIND SPEED

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17 - 21

11 . 16

7 - 10

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SPEED (KNTS) DIR.

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9.3

13.5

1.6 1.1 4:4

## SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

YEARS

WEATHER

CONDITION

0

NOURS (L.S.T.)

APR

8888

4.8

3,0

TOTAL NUMBER OF OBSERVATIONS

150

7.8

100.0

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27.3

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DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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11706

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WNW N × VARBL CALM

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

WEATHER CLASS ALL

73-77

GUANTANAMO BAY, CUBA

YEARS

13 HOURS (L.S.T.)

APR

CONDITION

22 - 27

17 - 21

11 . 16

7.10

1.3

SPEED (KNTS) DIR.

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2.0

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1.0 9.0 13.2 1 MEAN WIND SPEED 20.3 1. 0.0 \* 128 . 55 4 41 - 47 34 - 40 28 . 33

TOTAL NUMBER OF OBSERVATIONS

150

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100.0

10.7

58.7

26.0

0.

SMOS DIRNAVOCEANMET

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11706

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

150

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

10

Q

16 HOURS (L.S.T.)

APR

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

YEARS 73-77 ALL WEATHER CONDITION GUANTANAMO BAY, CUBA

NHE NE	SPEED (KNTS) DIR.	1:3	4:	7 - 10	11 . 16	17 - 21	22 - 27	28 - 33	34 - 40	41.47	48 . 55	% AI	×	WEAN WIND SPEED
2.0 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	z		"		1.3								2.7	-
2.7 6.7 36.0 43.3 9.3	ZZ				.7									12
1.3 .7 .7 .777 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	¥			2.0									2.7	10
. 7 2.0 14.0 4.7 . 7 2.0 14.0 4.7 . 1.3 2.7 7.3 1.3 . 7 2.0 2.7 .7 . 7 2.0 2.7 .7 . 77 .7 . 7777	ENE			1.3	.7								2.7	12.
., 5.3 7.3 1.3 ., 4.7 7.3 1.3 ., 4.7 7.3 ., 2.7 1.3 ., 2.7 4.0 2.7 .7 ., 2.0 2.7 .7 ., 2.0 2.0 .7 ., 36.0 43.3 9.3				4.0	S								10.7	12.
.7 4.7 7.3 .7 2.7 4.0 2.7 .7 .7 2.0 2.7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	ESE		.7	2.0	-								21.3	14.
1.3 2.7 7.3 6.0 1.3 2.7 4.0 2.7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	35			5.3	7	1.							14.7	11
1.3 2.7 1.3 6.0 1.3 7 2.0 2.7 .	SSE			4.7									12.0	11
. 7 2.7 4.0 2.7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .			1.3										5.3	6
2.7 4.0 2.7 ··7 2.0 2.7 ··7 ··7 ··7 ··7 ··7 ··7 ··7 ··7 ··7 ··7 ··7 ··7 ··7 ··7	SSW												10.0	9.1
2.7 6.7 36.0 43.3 9.3	SW		2.7			. 1							10.0	9.5
2.7 6.7 36.0 43.3 9.3	WSW			2.0									2.0	0.6
2,7 6,7 36,0 43,3 9,3	*												1.3	12.0
2.7 6.7 36.0 43.3 9.3	WWW										18			
2,7 6,7 36,0 43,3 9,3	N												.7	2.0
2,7 6.7 36.0 43.3 9.3	MNN												1.3	0.6
2,7 6.7 36.0 43.3 9.3	AIN												0.0	
36.0 43.3 9.3													2	
		2.7	6.7										100.0	11.1

MEAN WIND SPEED

8.5 10.1 11.5 7.2

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706 STATION

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1556

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WEATHER ALL

YEARS

CONDITION

17 - 21

11 - 16

7 - 10

4 - 6

1.3

HOURS (L.S.T. 61 APR

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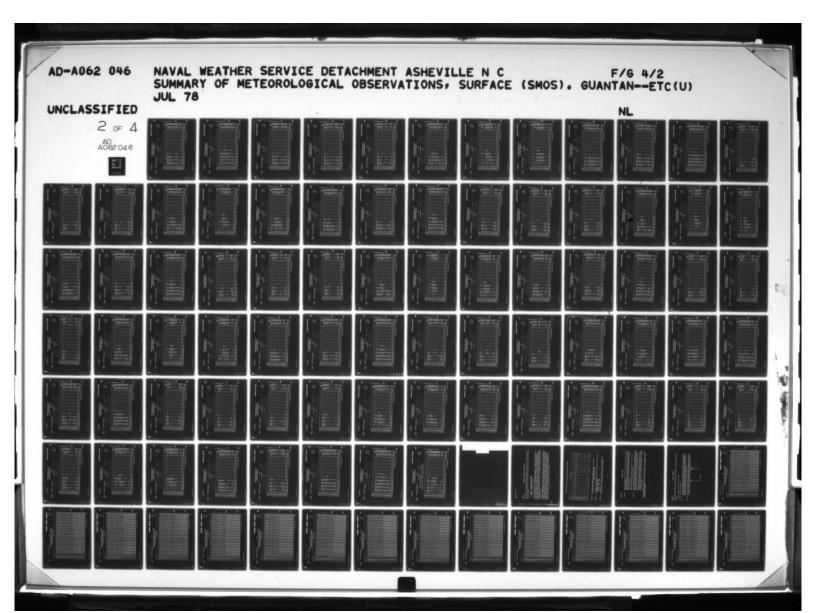
TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC



SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11705 STATION

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(FROM HOURLY OBSERVATIONS)

YEARS 73-77 ALL WEATHER CONDITION GUANTANAMO BAY, CUBA

22 HOURS (L.S.T.)

APR

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150

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS JAN 78 5702

## SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAMU BAY, CUBA

11706 STATION

YEARS

CONDITION

10

ALL HOURS (L.S.T.)

APR

MEAN WIND SPEED	4.7	6.1	7.3	8.1	9.6	12,8	10.8	10.1	8.2	8.9	8.6	7.2	5.8	5.1	5.3	5.4		4	7.3
*	18.7	7.6	2.9	3.4	6.6	7.6	2.9	5.5	3.5	5.4	3.5	1.9	1.4	1.2	2.7	10.5	3	6.5	0 000
% Al																		$\bigvee$	
48 - 55																		X	
41 - 47																		$\bigvee$	
34 - 40																		X	
28 - 33																		X	
22 - 27						1.												X	•
17 - 21				•	5.	2.2	•	-		7.	•	7.	-					X	
. i.	•	1.2	1.1	0.	7.8	4.2	3.2	2.5	1.2	1.2	5.	.2	7.			.2		X	.0.
7 - 10	3.5	2.3	2.3	•	2.2	1.9	1.1	1.8		2.1	1.4		•	•	æ	3.7		X	34.40
9:	8.4	3.1	1.6	1.0					1.0		•	9.	3.	9.		4.0		X	2 40
::	6.8	2.7	1,2	5.		***	.2	3.		3.			s.			2.7		X	. 0 .
SPEED (KNTS) DIR.	z	NN	2	Z.		ESE	35	SSE	s	SSW	NS.	WSW	*	WNW	×	NNN	VARBL	CALM	

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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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5702 SURFACE WINDS JAN 78

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

CONDITION

ALL WEATHER

HOURS (L.S.T.)

MAY

MEAN WIND SPEED	4.5	3.6	0.4	4.6	4.5	8.5	3.0		5.5	0.9	0.9	5.8	3.0	2.0	5.4	4.5			3.7
*	27.1	11.0	3.9	3.2	2.0	3.9	9.		60	1.9	9.	3.2	1.3	0.	4.5	14.8		19.4	100.0
% Al											4							X	
8 . 55																		X	
41 . 47																		X	
34 - 40																		X	
28 - 33																		X	
22 - 27																		X	
17 - 21																		X	
91 . 19	9.					1.3				9.						9.		X	3.2
7 - 10	4.5	9.	9.	9.	9.	9.			9.			•			2.6	1.3		$\bigvee$	12.9
:	12.3	3.2	9.	1.3	9.	9.				9.	9.	5.6	9.		9.	5.8		X	29.7
:	6.7	7.1	2.6	1.3	1.3	1.3	5.		9.	9.			9.	9.	1,3	7.1		X	34.8
SPEED (KNTS) DIR.	z	ZZ	¥	Z		ESE	35	SSE	0	SSW	AS.	WSW	*	WNW	××	NNN	VARBL	CALM	

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DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

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TOTAL NUMBER OF OBSERVATIONS

TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

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SURFACE WINDS

73-77 ALL WEATHER CONDITION

GUANTANAMO BAY, CUBA

11706

0

NOURS (L.S.T.)

MAY

YEARS

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MEAN WIND SPEED

22 - 27

17 - 21

11 . 16

7 - 10

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### SURFACE WINDS

1800

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

GUANTANAMO BAY, CUBA

11706

73-77 ALL WEATHER

COMBITION

YEARS

HOURS (L.S.T.)

MAY

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TOTAL NUMBER OF OBSERVATIONS

1198

155

3.9

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DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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16.1

26.5

WSW WSW

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SSW

CALM

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155

TOTAL NUMBER OF OBSERVATIONS

5702 SURFACE WINDS JAN 78

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

SURFACE WINDS

(FROM HOURLY OBSERVATIONS)

ALL WEATHER

73-77

GUANTANAMO BAY, CUBA

NOURS (L.S.T.)

MAM

COMPITION

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4.6 7.	7 . 10	91 - 16	17 - 21	22 - 27	28 - 33	34 - 40	4 . 4	48 - 55	8	*	MEAN WIND SPEED
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										3.2	4.8
	.0.									1.3	5.5
	9.	•								3.9	5.8
1000	6.1	1.9								7.1	7.5
-	6.9	4.3								4.6	10.5
-	5.2	1.3	0.							9.7	8.6
	1:									11.0	7.0
	3.2	1.3								6.5	8.2
	3.9	•								7.7	7.3
	6.1	9.								7.1	9.9
										5.8	3.9
	9.									7.1	3.9
										1.3	3.5
10000	1.9									7.7	4.6
Y	$\langle \rangle$	$\bigvee$	X	X	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	3.9	
1	32.9	11.0	9.							100.0	4.4

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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5702 SURFACE WINDS JAN 78

8004N8MMM

155

TOTAL NUMBER OF OBSERVATIONS

0

WWW W

SSW WSW

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NW NWW

CALM

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

2

SURFACE WINDS

73-77

GUANTANAMU BAY, CUBA

11706

ALL WEATHER

YEARS

13 HOURS (L.S.T.)

MAM

CONDITION

4.6

1.3

SPEED (KNTS) DIR.

z z z z

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MEAN WIND SPEED	12.	15.	5.	11.	11.	12.	10.	11.	10.	8.	7.	3.	7.		10.
×	1.3	9.	9.	2.6	15.5	23.9	17.4	15.5	12.9	2.6	2.6	2.6	1.9	0.	100.0
95 A														$\bigvee$	
48 - 55														$\bigvee$	
4.14				7										$\bigvee$	
07 - 76														$\bigvee$	
28 - 33														$\bigvee$	
n · n									9.					$\bigvee$	••
17 . 21					1.3	2.								$\bigvee$	3.9
11 - 16	1.3	0.		1.9	4.8	7		8.4	4.5				9.	$\bigvee$	47.1
0.					5.2	4.8	5.8	7.1	7.1	1.9	1.9		9	V	38.1

5.6

SS SS SS

0

SURFACE WINDS

E

NOURS (L.S.T.)

MAY

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER CUANTANAMO BAY, CUBA

YEARS

CONDITION

MEAN WIND SPEED	5.3				1.6	11.2	-	8.1		100		8.6		9.0		8.0			9.3
*	1.9	9.	9.	9.	5.2	17.4	18.1	10.3	11.6	11.6	13.5	7.1		9.		9.		0.	100.0
% AI																		$\bigvee$	
8 - 85																		$\bigvee$	
41.47																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27			9.			••												$\bigvee$	1.3
17 - 21					9.	1.3	1.3											X	3.2
÷ :					1.3	7.1	3.9	1.3	2.6	1.9		1.9						X	21.3
7 . 10	E	9.			1.3	5.8	12.3	5.8	6.5	6.9	11.0	3.2				0.		X	54.8
• •					1.3	5.6	9.	5.6	5.6	100	1.3	1.9		9.				X	17.4
÷:	0.				0.			9.										X	1.9
SPEED (KNTS) DIR.	z	N.	¥	ENE		ESE	35	SSE	•	SSW	SW	WSW	*	WNW	NN	NNN	VARBL	CALM	

SMOS DIRNAVOCEANMET

3

155

TOTAL NUMBER OF OBSERVATIONS

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

0

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155

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

10

SURFACE WINDS

(FROM HOURLY OBSERVATIONS)

YEARS 73-77 ALL WEATHER CONDITION

19 HOURS (L.S.T.)

MAY

SPEED	6.1		7 . 10	41 - 11	17. 21	"."	28 . 33	97.72	0	33 07	77.4	3	MEAN
			2	!		1	3	}	•	3	8	R	SPEED
	1.9	1.3	9.									3.9	4.7
NNE	1.3		1.9									3.2	4.9
Z.		1.3		9.								1.9	
ENE			9.									9.	8.0
	1.3	5.2	5.2									11.6	4.9
ESE	1.9	5.2	3.9	1.3								12.3	6.5
SE	3,9	3.9	5.8									13.5	5.5
	1.9	1.9	9.									4.5	4.0
	3.2	3.2	9.									7.1	3.5
SSW	2.6	3.8	1.9	9.								4.8	5,5
	1.3	3.2	5.6									7.1	5.8
WSW	9.	5.5	4.5									10.3	6,8
	1.3	1.3	0.									3.2	5.0
WNW				9.								9.	11.0
N		9.										1.9	
NNN	9.	3.2	1.9									5.8	5.9
/ARBL													
CALM	$\bigvee$	$\bigvee$	X	X	X	X	X	X	X	X	X	3.9	
	21.9	38.7	32.3	3.2								100.0	5.6

DIRNAVOCEANMET SMOS

11706 STATION

GUANTANAMU BAY, CUBA

4.9

7.7

SURFACE WINDS JAN 78

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WIND SPEED

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

1

WINDS

SURFACE

73-77 ALL WEATHER

GUANTANAMU BAY, CUBA

YEARS

22 HOURS (L.S.T.)

MAN

11 - 16

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SPEED (KNTS) DIR.

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1.3 3.0

TOTAL NUMBER OF OBSERVATIONS

155

4.2

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SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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11706 STATION

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VARBL CALM

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TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

213

SURFACE WINDS

COMBITION

0

ALL HOURS (L.S.T.)

MONTH

YEARS

73-77

GUANTANAMO BAY, CUBA

ALL WEATHER

MEAN WIND SPEED	6.3	4.2	5.1	5.0	6.9	9.3	9.3	8.1	8.5	8.2	7.0	6.4	6.3	4.5	6.0	0.9			I
*	19.3	6.8	3.3	1.9	5.1	8.8	8.7	5.7	5.5	5.6	4.6	4.4	2.1	100	6.1	6.4		7.7	
Z 56																+	1	X	
48 - 55																	1	X	
4.4																		X	
34 - 40																		X	
28 - 33																		X	
22 - 27			• 1			•				-								X	,
17 - 21					**	4.	9.												
5 5	•	.2	.3	1.	.7	5.9	8.3	1.2	1.5	1.0	~	.2	7.	-:	7.			X	7
7 . 10	3.2	1.0	4.	4.	1.4	2.7	4.0	2.5	2.3	5.6	2.4	1.5	.2	1.	5.	1.6			
•:•	7.3	2.3	8	6.	1.7	1.1	1.0	1.3	1.0	1.5	1.1	2.3	1.1	. 3	9.	3.5		X	0 00
1.3	4.8	3.3	1.7	~	1.2	1.0			5.	5	7.	3.	. 7		*	2.6			3 . 6 .
SPEED (KNTS) DIR.	z	NN NN	Z	EX.		ESE	35	SSE		SSW	SW	WSW	*	WNW	N	NNW	VARBL	CALM	

DIRNAVOCEANMET

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DER

150

TOTAL NUMBER OF OBSERVATIONS

0

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0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73-77

GUANTANAMO BAY, CUBA

11706 STATION

0

YEARS

ALL WEATHER

HOURS (L.S.T.)

NON TH

CONDITION

MEAN WIND SPEED	3.4	2.9	2.3	3.0	3.3	4.5					0.9	0.9		5.5	4.6	3.9			3.2
*	31.3	10.7	0.4	1.3	2.0	1.3						•		0.4	13.3	18.0		12.7	100.0
95 Al																		X	
48 - 55																		X	
41 - 47																		X	
34 - 40																		X	
28 . 33																		X	
22 - 27																		X	
17 - 21																		X	
91 - 11																		X	
7 - 10	2.0														3.3	2.7		M	8.7
• •	6.6	0.4			1.	1.3								3.3	4.7	7.3		X	32.0
1:3	20.0	6.7	0.4	1.3	1.3										5.3	8.0		X	46.7
SPEED (KNTS) DIR.	z	N.	¥	ENE		ESE	35	SSE	s	SSW	SW	WSW	*	WNW	N.	NNN	VARBL	CALM	

150

TOTAL NUMBER OF OBSERVATIONS

### NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

80

04 HOURS (L.S.T.)

NON

YEARS

73-77

GUANTANAMO BAY, CUBA

11706

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SURFACE WINDS

ALL WEATHER CONDITION

MEAN WIND SPEED	3.4	2.6	3.2	2.0	5.0		7.3					2.0		4.5	6.1	4.5			3,2
*	36.0	14.7	0.9	1.3			2.0							1.3	8.7	12.7		16.0	100.0
% Al																		X	
48 . 55																		X	
41.4																		$\bigvee$	
3 4																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27																		$\bigvee$	
17 - 21																		$\bigvee$	
11 . 16																		$\bigvee$	
7 . 10	1.3						1.3								3.3	1.3		$\bigvee$	7.3
• •	14.7	2.0	1.3									. 7		1.3	5.3	6.7		X	33,3
1.3	20.0	12.7	4.7													4.7		X	43.3
SPEED (KNTS) DIR.	z	N. N.	¥	ENE		ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	××	NNW	VARBL	CALM	

0

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19.3

MEAN WIND SPEED

34 - 40

28 . 33

22 - 27

17 - 21

11 - 16

7 - 10

9.7

SPEED (KNTS) DIR.

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5702 SURFACE WINDS JAN 78

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

GUANTANAMU BAY, CUBA

73-77

YEARS

ALL WEATHER

HOURS (L.S.T.)

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CONDITION

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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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11706 STATION

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NN X VARBL CALM 38.7

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TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

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NOURS (L.S.T.)

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAMO BAY, CUBA

11706 STATION

9 0

YEARS

CONDITION

SPEED (KNTS) DIR.	::	4.6	7 - 10	11 . 16	17 . 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	% AI	*	MEAN WIND SPEED
z	3.3	4.0	1.3									8.7	*
N.	1.3											2.7	5.
¥.	1.3	2.7										4.7	4.
ENE			. 7									4.	10.
		2.0	8.1	4.1	1.3							16.7	10.6
ESE		2.0	7.3	4.7								14.7	9.1
35		2.0	*	2.0								8.0	8
SSE	1.	2.0	9									10.0	7.6
s	1.3		2		. 7							4.7	7.1
SSW		1.3	.7	.7								2.7	8
SW.	. 7	1.3	. 7									2.7	5.3
WSW	1.3			6								1.3	2.0
*	2.7											3.3	2.4
WWW	2.7		.7									0.4	3.
¥	2.0	2.0										0.4	3.5
NNN	2.7	3.3										6.0	3.8
VARBL													
CALM	X	$\bigvee$	$\bigvee$	X	X	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	5.3	
	20.7	25.3	33.3	13.3	3.0							100.0	6.7

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TOTAL NUMBER OF OBSERVATIONS

EE 53

# SURFACE WINDS

38

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706 STATION

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ALL WEATHER

YEARS

13 HOURS (L.S.T.)

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SPEED			9	:	:	8	9	;	;	;	3	8	MEAN
DIR.	?	•	2	•	7.7	77 - 77	?? . 97	¥ . •		8	S.I	<b>e</b>	SPEED
z													
N.			۲.									4.	7.0
7			1.3									1.3	8.5
ENE	•											4.	2.0
			1.3	4.0	1.3							7.3	14.7
ESE		1.3	8.7	15.3	1.3							26.7	11.7
35	•	2.0	4.7	10.7	7.							18.7	11.1
SSE		2.0	11.3	7.3								21.3	10.3
s			4.7	0.9								10.7	11.2
SSW		1.3	4.7									0.9	7.7
NS.		1.3	2.0									3.3	7.6
WSW			1.3									2.0	7.0
*													4.0
WNW													
NW													
NNW													
VARBL													
CALM	$\bigvee$	•											
	1.3	6.6	40.7	43.3	0.4	.7						100.0	10.7

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

=

SURFACE WINDS

16 HOURS (L.S.T.) SULTH IN YEARS 73-77 ALL WEATHER COMBITION GUANTANAMO BAY, CUBA

11706

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WIND WIND SPEED	4.3	5.2	0.9	10.01	9.5	9.0	9.7	6.3	7.6	6.9	4.9	4.5	5.5	2.0					-
*	0.4	3.3	.7	1.3	16.0	20.0	14.0	14.0	8.7	8.0	0.9	1.3	1.3						
8																		X	
8 . 35																		X	
41.4																		X	
34 . 40																		X	
28 · 33																		X	
22 - 27																		X	
17 - 21																		X	
91 . 1				.7	6.1	6.7	0.0											X	
7 - 10	. 7	.7			4.0	8.7	5.3		4.7	2.7	3.3		1.					X	
•	1.3	2.7	7.	1.	4.0	3.3	2.7	6.7	3.3	4.0	2.0	1.3						X	-
::	2.0				1.3	1.3		1.3		. 7	. 7		. 7	. 7				X	
SYEED (KNTS) DIR.	z	NNE	N.	ENE	3	ESE	38	SSE	s	SSW	SW	WSW	*	WNW	WW	NNN	VARBL	CALM	

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TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER COMBITION GUANTANAMO BAY, CUSA

19 HOURS (L.S.T.)

NON THE

MEAN WIND SPEED	6.2	6.0	0.9	6.5	4.0	5.2	5.2	0.9	5.0	3.6	3.6	4.3	0.9	1.0	5.0	***			5.0
*	8.0	10.7	3.3	4.0	10.7	11.3	13.3	0.9	5.3	4.7	3.3	5.3				4.7		7.3	100.0
% Al																		X	
8 . 55																		X	
41.4																		X	
34 - 40																		X	
28 - 33																		X	
22 - 27																		X	
17.21	1.																	X	r.
11 . 16		1.3	. 7			1.		•										X	4.7
7 . 10	2.0	2.7			5.3	1.3	3.3	1.3				•						X	19.3
4.6	3.3	4.0	1.3	2.0	3.3	7.3	4.7	2.1	3.3	3.3	1.3	2.1			. 1	2.7		X	43.3
1.3	2.0	2.7			2.0	2.0	4.1	1.3	1.3	1.3	2.0	2.0				1.3			24.7
SPEED (KNTS) DIR.	z	NNE	a z	ENE	E	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	NW	NNN	VARBL	CALM	-

0

SMOS DIRNAVOCEANMET

SURFACE WINDS JAN 78

SURFACE WINDS

3480

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

22 HOURS (L.S.T.)

ALL WEATHER

CONDITION

MEAN WIND SPEED	4.6	4.1	3.5		3.8	3.7	3.3	0.4	3.0		4.3		5.5	3.6	*		3.2
*	22.7	12.7	2.7	0.9	8.0	2.0	2.7	1.3	•	1.3	2.0		1.3	4.7	7,3	24.7	100.0
<b>%</b>																X	
48 - 55																X	
41.4																X	
34 - 46																X	
28 - 33																X	
22 - 27																X	
17 - 21																X	
11 . 16	1.									4.						X	1.3
7 . 10	3.3	1.3			1.3										1.3	X	8.0
• ;	10.7	0.9	. 7	2.7	2.7		1.3				1.3		1.3	2.0	4.0	X	34.0
::	8.0	5.3	2.0	2.7	4.0	1.3	1.3				1.	-		2.7	2.0	X	32.0

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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SPEED (KNTS) DIR.

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SSW SSW SSW WSW WNW NNW NNW NNW CALM

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150

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAME BAY, CUBA

11706

0

YEARS

ALL HOURS (LET.)

S S S

CONDITION

MEAN WIND SPEED	3.8	3.8	4.2	5.0	8.8	9.2	8.6	8.1	8.3	4.0	5.9	4.6	3.7	4.3	4.8	4.7			
×	7.61	6.9	3.6	2.0	7.07	9.6	7.5	6.7	3.7	5.9	2.0	1.7		1.5	4.1	8.2		2.6	
<b>%</b>																		X	
8 . 8																		X	
4.4																		X	
34 - 40																		X	
28 - 33																		X	
22 - 27					7.													X	
17 . 21	-				•	.2	-	-	-									X	
91 - 11	7:	.2	7.	.2	5.2	3.4	5.4	1.2	30	.2						-:		X	
7 - 10	1.0			.2	5.0	3.2	2.5	3.2	7	1.0		.2	7.	.2	5.	1.7		X	
;	7.8	3.4	1.6		1:1	2.0	1:1	1.1		1.2		6.	7.		1.9	3.5		X	
:	8.6	5.0	1.6	5.	1.1	•	•	v.	3.	3.	*		3.		1.2	5.3		X	
SPEED (KNTS) DIR.	z	W.	Z	Z	-	ESE	35	SSE	50	SSW	NS.	WSW	>	WWW	₹ Z	NN.	ARBL	CALM	

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TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73-77 ALL WEATHER

CONDITION

22 - 27

17 - 21

11 - 16

7 - 10

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NN N 7 2

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10 HOURS (L.S.T.)

MEAN WIND SPEED	3.2	3.6	3.3	5.4	0.0	3.0	8.0		6.3	5.3	3.3		3.3
×	29.7	1601	1.9	3.2	2.0	9.	9.		1.9	12.9	14.8	15.5	100.0
% %												X	
48 - 55												X	
41 - 47												X	
34 - 40												X	
28 - 33												X	

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11706

GUANTANAMO BAY, CUBA

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42.6

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WSW WSW

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SSW

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NA YEAR

8.4

VARBL CALM

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DIRNAVOCEANMET SMOS

SURFACE WINDS JAN 78

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08000 0. 5.8 5.7 MEAN WIND SPEED 0.4 HOURS (L.S.T.) 2.6 0. 9. 12.3 33.5 \* 1 28 48 - 55 41 - 47 34 - 40 . 33 58 ALL WEATHER 22 - 27 CONDITION 17 - 21 11 . 16 0 1.9 2.2 7 - 10 8 50 14.2 4.6 00000 1.3

SPEED (KNTS) DIR.

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TOTAL NUMBER OF OBSERVATIONS

155

11.6

100.0

14.2

33.5

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WSW

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WNW NA NA

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VARBL CALM

SMOS DIRNAVOCEANMET

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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YEARS

73-77

GUANTANAMU BAY. CUBA

11706

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS)

DIRECTION AND SPEED

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155

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

YEARS

CONDITION

22 - 27

17 - 21

11 . 16

7.10

4.6

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SPEED (KNTS) DIR.

9.6

1.9

12.9

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0

NOURS (L.S.T.)

JUL HONTH

MEAN WIND SPEED	3.5	2.8	3.3	3.0	4.5	16.0		2.0	7.1	4.8		3.7
*	41.3	16.1	5.8	1.9	5.6	9.		9.	4.5	50.02	5.8	100.0
8											X	
48 . 55											M	
41.4											M	
34 - 40											M	
28 - 33											M	

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706 STATION

GUANTANAMO BAY, CUBA

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SSW

SW. WSW

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11.0

35.5

46.5

3.5

1.3

6.5

NNW

CALM

3.238

WIND SPEED

×

128

17 - 21

11 . 16

7 - 10

4.6

1.3

SPEED (KNTS) DIR.

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

GUANTANAMO BAY, CUBA

11706 STATION

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73-77

ALL WEATHER

YEARS

NOURS (L.S.T.)

JUNON NEW

CONDITION

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3.6

N W

NW NNW VARBL

CALM

WSW WSW

SSW

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3.9 1.3 100.0

TOTAL NUMBER OF OBSERVATIONS

21.9

28.4

23.9

20.6

155

DIRNAVOCEANMET SMOS

SURFACE WINDS JAN 78 5702

SURFACE WINDS

SAM

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAMO BAY, CUBA

11706

YEARS

CONDITION

3

13 HOURS (L.S.T.)

1.9 4.5 20. 1.3 4.5 0. 1.3 4.5 0. 2.4 9.0 13.	SPEED (KNTS) DIR.	-:3	;	7 . 10	11 . 16	17 - 21	22 - 22	28 - 33	34 - 40	41 - 47	48 - 55	۸i	N 56	*
1.9 5.8 1.9 5.8 1.9 5.8 1.9 5.6 5.2 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	Z													•
1.9 5.8 1.9 1.3 4.5 20.6 4.5 1.3 4.5 9.7 .6 2.6 5.2 2.6	Z			9.										9.
1.9 5.8 1.9 6.5 20.6 4.5 1.3 4.8 9.7 .6 3.9 2.6 2.6 6.5 2.6 4.5	Z													
1, 9, 0, 13, 5 1, 3, 4, 5 3, 9, 7 3, 9, 7 3, 9, 7 3, 9, 7 3, 9 3, 9 3, 9 3, 9 4, 5 3, 9 3, 9 4, 5 3, 9 4, 5 3, 9 4, 5 4, 6 4, 7 4,	ę		9.		5.8	-								11.0
1.3 4.5 9.7 1.3 4.5 9.7 3.9 2.6 3.9 2.6	353				20.6	3	•							32.3
1,3 4,5 9,7	38		9.		13.5									23.9
3.9 2.9 3.9 2.0	35E		1.3		6.4	•								16.1
	S		9.		2.6									8.4
	SSW													3.9
	SW													2.6
WWW NWW NAWW CALM	WSW			9.										9.
WANW NWW VARBI CALM	*													
NW NIW NAME CALM	WNW													
NAVA VARBI.	WW													
CALM	NNW													
CALLA	VARBL													
	CALM	$\bigvee$		X	$\bigvee$	X	M	X	$\bigvee$	$\bigvee$	$\bigvee$	$\bigwedge$	$\bigvee$	0.
3.2 34.8 52.9 7.7 1.3			3.2	34.8			1.3							100.0

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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155

TOTAL NUMBER OF OBSERVATIONS

TOTAL NUMBER OF OBSERVATIONS

### SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

ALL WEATHER

73-77

GUANTANAMO BAY, CUBA

YEARS

16 HOURS (L.S.T.)

JUN WONTH

CONDITION

MEAN WIND SPEED	10.0	4.8	0.9		12.8	10.5	10.5	8.1	9.9	8.3	7.1	8.0	1.0			0.0			9.6
*	5.6	2.0	9.		12.9	28.4	20.0	11.6	7.7	4.3	4.5	3.2	9.			9.		0.	100.0
N 26																		$\bigvee$	
48 - 55																		X	
41 - 47																		X	
34 - 40																		X	
28 - 33																		$\bigvee$	
22 - 27																		X	
17 - 21					3.5	1.9	9.											X	5.8
91 - 11	0.				6.0	13.5	4.8	1.9		9.								X	31.6
7 - 10	1.9	9.			0.	0.6	6.7			2.0	3.2	1.9						X	40.6
9.4		1.3	0.		5.6	2.6		1.9	3.5	1.3	1.3	1.3				9.		X	18.1
3		9.				1.3		9.	•				9.					X	3.6
SPEED (KNTS) DIR.	z	NNE	w	ENE	w	ESE	35	SSE	s	SSW	SW	WSW	*	WNW	NW	MNN	VARBL	CALM	

DIRNAVOCEANMET SMOS

0

11706 STATION

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

NOURS (L.S.T.)

155

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

YEARS DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS) 73-77 ALL WEATHER CONDITION GUANTANAMO BAY, CUBA NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

MEAN WIND SPEED	5.6	9.9	6.9	9.2	7.8	6.9	5.9	3.8	3.4	3.0	3.0	2,3	4.3	10.0	8.3	0.9			5.8
*	7.1	5.2	5.2	3.9	21.3	19.4	5.2	6.9	5.2	2.6	4.5	1.9	1.9	9.	1.9	2.6		5.5	100.0
% %																		X	
48 - 55																		X	
41 - 47																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27																		$\bigvee$	
17 - 21						3.												$\bigvee$	9.
5 :		1.3	9.	9.	9	0.	9.								9.			X	8.4
7 - 10	1.9		6.1	2.6	11.6	7.7	9.						9.	9.	•	9.		X	29.0
•;	3.9	2.6	1.3	9.	3.9	6.5	2.6	4.5	1.3	1.3	2.0	•	.0		•	1.9		X	34.8
÷:	1.3	1.3	1.3		1.9	3.9	1.3	1.9	3.9	1.3	1.9	1.3	9.					X	21.9
SPEED (KNTS) DIR.	z	NN.	ž	ENE		ESE	35	SSE	•	SSW	NS.	WSW	*	WNW	MM	NNW	VARBL	CALM	

### SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

NO

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

CONDITION

ALL WEATHER

22 HOURS (LS.T.)

JUL MONTH

YEARS

73-77

GUANTANAMO BAY, CUBA

11706 STATION

0 0

MEAN WIND SPEED	4.6	4.6	4.2	0.4		1.7		2.5	1.0	2.0	13.0	4.0		2.0	5.2	4.8			3.4
*	18.1	10.3	11.6	4.5	8.4	1.9	1.3	1.3	9.	9.	0.	9.		2.6	5.8	0.6		22.6	100.0
% Al																		X	
48 · 55																		X	
41.4																		$\bigvee$	
34 - 40																		X	
28 - 33																		X	
22 - 27																		X	
17 - 21																		X	
ş. :	0.		0.								9.							X	5.1
7 . 10	1.9	2.6	0.		0.		0.							9.	1.3	1.3		X	6.7
• •	10.3	3.9	30	3.9	7.02		0.					9.		1.0	3.9	5.2		X	35.5
.:3	5.5	3.0	6.9	.0	6.9	1.9		1.3	9.	9.					9.	2.6		X	30.3
SPEED (KNTS) DIR.	z	NN	w	Z.		ESE	35	SSE	•	SSW	NS.	WSW	*	WNW	×	MNN	VARBL	CALM	

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155

TOTAL NUMBER OF OBSERVATIONS

5.9 5.9

5.7

8.1

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1.3

SPEED (KNTS) DIR.

MEAN WIND SPEED

3.7

10.0

8.6 9.9 7.0 4.9 1240

TOTAL NUMBER OF OBSERVATIONS

6.1

181

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706 STATION

0

YEARS

ALL WEATHER

ALL HOURS (L.S.T.)

J. Thou

CONDITION

17.3 8.8 8.8 13.0 13.1 3.3 3.3 1.6 8 0 0 0 0 100.0 7.7 128 . 55 4 . 47 7 34 - 40 28 - 33 -: 22 - 27 2.3 1:1 -17 - 21 15.0 22220 11 . 16 4.0 3.0 22.1 1.9 7 - 10 27.0 0.4 1.3 4.6

mm ~ 00 ~

WSW

SK

WWW NN X

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SSE

25.7

VARBL

CALM

TOTAL NUMBER OF OBSERVATIONS

9

0

# SURFACE WINDS

NOURS (L.S.T.)

AUG

YEARS

ALL WEATHER

11706 STATION

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS) 73-77 GUANTANAMU BAY, CUBA NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

MEAN WIND SPEED	3.0	3.5	4.1	4.0	6.7	14.0				0.0			-	0.0	5.3	3.4			*
*	25.8	10.3	5.8	2.6	3.9	9.				1.3			-	2.6	9.7	24.5		10.3	
% Al																		X	
48 - 55																		X	
41.47																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 22																		X	
17.21																		X	
11 . 16						9.												X	
7 . 10			0.	9.	1.9					0.				2.6	2.6	9.		X	
• • •	0.6		2.6	9.	0.									2.6	5.2			X	
1.3	16.8	5.2	2.6	1.3	1.3					9.					1.9	13.5		X	
SPEED (KNTS) DIR.	z	W X	w Z	Z		ESE	25	SSE	•	SSW	SW	WSW	*	WWW	*	NNN	VARBL	CALM	

0

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

ALL

CONDITION

HOURS (L.S.T.)

AUG MONTH

48 - 55

41 . 47

34 - 40

28 - 33

22 - 27

17 - 21

7 - 10

4.6

1.3

14.0000 MEAN WIND SPEED 39.4 00 \* 12

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2.0

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5.3 4.2 3.5 100.0 11.0 18.7

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

11706

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WEATHER

11 - 16

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SSE •

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WSW

SSW SW NN VARBL

CALM

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NOURS (L.S.T.)

AUG

### SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

YEARS 73-77 GUANTANAMO BAY, CUBA

ALL WEATHER

CONDITION

MEAN WIND SPEED	3.7	3.2	4.7	3.0	7.4	8.0								1.0	5.8	0.0			4.0
*	44.5	16.1	7.1	6.1	3.2	9.								9.	3.2	15.5		7.1	100.0
% AI																		$\bigvee$	
48 - 55																		$\bigvee$	
41.4																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27																		$\bigvee$	
17 - 21																		$\bigvee$	
11 . 16					9.													$\bigvee$	9.
7 - 10	6.9	9.	-		1.3	0.									1.9	7.1		$\bigvee$	19.4
4.6	12.3	6.5	2.6	0.	9.										9.	5.8		X	29.0
1.3	25.8	0.6	3.2	1.3	9.									9.	9.	2.6		X	43.9
SPEED (KNTS) DIR.	z	Z Z	¥	Z		ESE	SE	SSE	s	SSW	SW	WSW	*	WWW	N	WNN	VARBL	CALM	

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DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

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155

TOTAL NUMBER OF OBSERVATIONS

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TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

ENCY OF WII	VD SPEED	N HOURLY OBSERVATIONS
PERCENTAGE FREQUENCY OF WIND	DIRECTION AND SPEED	M HOURLY O
PERCEN		(FROM

				1
	YEARS			
73-77		ALL WEATHER	CLASS	CONDITION
UANTANAMO BAY, CUBA	STATION NAME			
GUANTANA				

MEAN WIND SPEED	3.6	4.3	4.3	6.8	10.4	8.6	9.2	8.9	9.0	5.0	3.5	4.3	2,5	3.5	3.3				7.1
*	10.3	4.5	3.9	3.9	19.4	21.9	0.6	5.8	1.3	9.	1.3	1.9	7.1	1.3	2.6			5.2	100.0
<b>%</b>																		X	
48 · 55																		X	
41.47																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27							9.											X	9.
17 . 21					1.9													X	1.9
1 . 16				9.	7.7	9.7	2.6	1.3	9.									X	22.6
7 - 10	9.	9.	9.	1.3	4.5	7.7	2.6	3.2										X	21.3
:	4.5	1.9	1.9		1.9	3.9	2.6	1.3	9.	9.	9.	1.3	1.3	•	1.3			X	24.5
6:-	5.5	6.1	1.3	1.9	3.2	5.	0.				9.	9.	5.8	0.	1.3			X	23.9
SPEED (KNTS) DIR.	z	Z Z	¥	ENE		ESE	*	SSE	•	SSW	NS.	WSW	*	WWW	×	NNN	VARBL	CALM	

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

5702 SURFACE WINDS JAN 78

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

NO

DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

GUANTANAMO BAY, CUBA

11706

0

73-77

ALL WEATHER

0

13 HOURS (L.S.T.)

AUG

CONDITION

MEAN WIND SPEED		3 6.0	-	6 12.0			211 2	1207	0.6									9	-
*		-	9.	9.	17.4	27.5	23.2	14.2	4.6	4.5								9.	
VI 36																		X	
48 - 55																		X	
4.4																		X	
34 · 40																		X	
28 - 33																		X	
22 - 27						1.9												X	
17 - 21					5.5	4.5		1.3										X	*
				9.	0.6	15.5	16.1	8.8	5.6									X	
7.10		9.	0.		2.0	4.5	6.9	3.0	5.8	3.2								X	+
• •		9.			9.	9.	9.	9.	1.3	1.3								X	
::						9.												X	-
SPEED (KNTS) DIR.	z	NNE	NE	ENE		ESE	SE	SSE	8	SSW	SW	WSW	*	WNW	XX	ANA ANA	VARBL	CALM	

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DIRNAVOCEANMET SMOS

3

155

TOTAL NUMBER OF OBSERVATIONS

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17 - 21

11 . 16

7 - 10

SPEED (KNTS)

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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

CUANTANAMO BAY, CUBA

11706 STATION

0

WEATHER

73-77

16 HOURS (L.S.T.)

AUG

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3.2 6.9

1.30

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TOTAL NUMBER OF OBSERVATIONS

155

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100.0

30.3

38.1

18.1

5.2

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VARBL

CALM

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SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

34 - 40

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- 21

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11 . 16

7 - 10

4.6

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SPEED (KNTS)

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VARBL

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CALM

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

NO

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

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SURFACE WINDS

73-77

GUANTANAMO BAY, CUBA

11706

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YEARS

WEATHER

ALL

CONDITION

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NOURS (LS.T.)

AUG

9.0 8.4 8.4 1.3 20 48 - 55 41 . 47

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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET

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(3)

12

48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 . 16

7.10

- 3

10.3

2.6

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25 25

5702 SURFACE WINDS JAN 78

11.00

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3.0

5.4

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24.5 100.0

155

36.8

24.5

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

2

22 HOURS (L.S.T.)

AUG

SURFACE WINDS

73-77 ALL WEATHER

GUANTANAMO BAY, CUBA

11706

YEARS

CONDITION

0

SURFACE WINDS JAN 78 5702

SSW

0

WSW WNW WNW WNW

VARBL

CALM

0

0

0

1240

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

0

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0

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL HOURS (LS.T.) AUG 73-77 ALL WEATHER COMBITION GUANTANAMO BAY, CUBA

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	1	. 8
	7	1.1
	m	e
-	•	3.1 3.5
0	0	3.6 4.9
	3	2.3 3.4
.2	*	1.7 1.4
	9	1.1
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1/	$\langle \rangle$	\lambda \lambd
2.6		20.7 14.8

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3.2 0.9 3.0

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NW VARBL

CALM

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40.7

150

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SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

ALL WEATHER

YEARS

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SEP

GUANTANAMO BAY, CUBA

11706

73-77

CONDITION

WIND SPEED 12

48 - 55

41 - 47

34 - 40

28 - 33

22 - 27

17 - 21

11 - 16

7 - 10

4.6

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SPEED (KNTS) DIR.

2.07

3 -- -

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22.7

0 0 m m 1.3 22.0 12.7 4:7 .

TOTAL NUMBER OF OBSERVATIONS

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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MSM.

38

WWW

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28 - 33

22 - 27

17 - 21

11 - 16

7 - 10

1.3

SPEED (KNTS) DIR.

9.3

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16.0

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5702 SURFACE WINDS JAN 78

12.0

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0.00

1111

SURFACE WINDS

6119

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

ALL WEATHER

YEARS

COMDITION

0

NOURS (L.S.T.)

SEP

100.0 4.7 18.0 12.0 1.3 38.7 128 48 - 55 41 - 47 34 - 40

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAŁ WEATHER SERVICE DETACHMENT ASHEVILLE, NC

3556

11706 STATION

0

ESE SE SSE

WSW WSW

SSW

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(19)

4.0

44.7

38.0

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8.1

VARBL CALM

1.3

WNW

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0

### SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

GUANTANAMU BAY, CUBA

11706

YEARS

73-77

ALL WEATHER

NOURS (L.S.T.)

SEP

CONDITION

	N	~	-	2			0							0	O			0
MEAN WIND SPEED	4.2	3.7	4.1	9			10.0							5.0	4.6			3.9
×	46.0	23,3	7.3	1.3			4.								14.0		6.7	100.0
95 Al																	$\bigvee$	
48 - 55																	$\bigvee$	
41 - 47																	$\bigvee$	
34 - 40	1									100							$\bigvee$	
28 - 33																	$\bigvee$	
22 - 22																	$\bigvee$	
17 - 21																	$\bigvee$	
91 - 11																	$\bigvee$	
7 - 10	5.3	. 7	1.3												0.3		$\bigvee$	10.7
*:	23.3	6.3	2.7												6.7		X	44.0
1.3	17.3	13.3	3.3												4.7		X	38.7
SPEED (KNTS) DIR.	z	N.	w z	EK	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	XX	NNW	VARBL	CALM	

DIRNAVOCEANMET SMOS

0

150

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

=

=

150

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

=

10 HOURS (L.S.T.)

SEP MONTH

YEARS

73-77

GUANTANAMO BAY, CUBA

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

ALL WEATHER CONDITION

17 - 21 22 - 27 28 - 33 34 - 40 41 - 47 48 - 55	11.16 17.21 22.27 28.33 34.40 41.47 48.55 0 0 0 0 0 0 0 0 0 0 0 0 0	11 - 16 17 - 21 22 - 27 28 - 33 34 - 40 41 - 47 48 - 55 6 6 6 0 4 9 7 9 7 9 7 9 9 7 9 9 7 9 9 7 9 9 7 9 9 7 9 9 7 9 9 7 9 9 7 9 9 7 9	* WIND SPEED	13.3 3.5	0					8.7 9.4	7.3 6.7	1.3 2.5	2.0 4.3	1.3 3.5	6.7 3.7		-	9 7
17 - 21 22 - 27 28 - 33 34 - 40	11.16 17.21 22.27 28.33 34.40 0 0 1 6.0 1 2.7 2 4.7 3 4.7 6 5.0 7 5.0 7 6.0 8 3 34.40	7 · 10   11 · 16   17 · 21   22 · 27   28 · 33   34 · 40	48 - 55 256															
7 - 7 - 28 - 33	11 . 16 17 . 21 22 . 27 28 . 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 · 10   11 · 16   17 · 21   22 · 27   28 · 33   2 · 0																
12. 7. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	11.16 17.21	7.10 11.16 17.21 2.0 2.7 2.0 5.3 4.7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .																+
	2. 1. 0 0 0 m v m	2. 11. 16 2. 12. 13. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	22 - 22						-	4								
	=	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						0.										-
	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0		SPEED (KNTS) DIR.	z	NN	¥	ENE	-	ESE	38	SSE	\$ SSW	SW	WSW	*	Wallet.	WFW	XX

DIRNAVOCEANMET SMOS

0 7

11706 STATION

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0

0

SURFACE WINDS

100

13 HOURS (LS.T.)

SEP

YEARS

73-77

GUANTANAMU BAY, CUBA

0 0

ALL WEATHER

CONDITION

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

10.0 9.8 13.1 11.0 3.0 14.0 1101 MEAN WIND SPEED 30.0 2.0 0 100.0 . 4. . . × 12 48 - 55 41 - 47 34 - 40 . 33 28 . 27 22 1.3 2. 17 - 21 115.0 48.0 2. 11 . 16 2000-1 38.7 7 - 10 3 2 4 3 8.0 4.0 .. VARBL SPEED (KNTS) DIR. WSW WSW WWW NA S CALM Z SSW 2 2 ESE 28 28 2 \* •

0

0

8413

150

TOTAL NUMBER OF OBSERVATIONS

0

1

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

3.7

8.0

### SURFACE WINDS

-

DIRECTION AND SPEED

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS) 73-77 ALL WEATHER

NOURS (L.S.T.)

SEP

0

CONDITION

SPEED (KNTS) DIR.

NNE

z

Z Z

*	2	2	2	-	8	56	11	10	14	~	9		2		100
95 Al														$\bigvee$	
48 - 55														X	
41.0														X	
34 - 46														$\bigvee$	
28 - 33														X	
22 - 27														X	
17 . 21						2.0								X	2.7
11 . 16					2.0	11.3	5.3		1.3	.,	2.0			X	24.0
7 - 10					4.7	10.3	10.7	0.9	8.7	2.7	1.3			X	46.0
• •			1.3			2.7		2.1	4.0		2.0			X	18.7
-: · · · · · · · · · · · · · · · · · · ·	-							1.3		1.3	1.3			X	8.0

=

8 6 6 8 0

=

130

TOTAL NUMBER OF OBSERVATIONS

8.6

0

0.0

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

GUANTANAMO BAY, CUBA

SSE SSE

SSW WSW WSW

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0

WNW N N

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VARBL

CALM

4.9

MEAN WIND SPEED

6.9 6.9

0000

5.7

4.3

0.9

2.0

.

7.5

0.4

200

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMU BAY, CUBA

YEARS

CONDITION

WEATHER CLASS

ALL

TOTAL NUMBER OF OBSERVATIONS

150

4.6

100.0

4.0

27.3

26.7

25.3

3.3

16.7

888

DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

SEP MONTH

19 HOURS (L.S.T.)

4.6

1.3

SPEED (KNTS)

28 - 33

22 - 27

17 - 21

2.7 2.0

5.0

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25 S S2

WWW

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WSW

SW

SSW

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NNW VARBL

CALM

5702 SURFACE WINDS JAN 78

12.00 B

1.3 • ===

0.00

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4 6 9 5

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1.3

SURFACE WINDS

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22 HOURS (L.S.T.)

SEP

DIRECTION AND SPEED

PERCENTAGE FREQUENCY OF WIND (FROM HOURLY OBSERVATIONS)

GUANTANAMU BAY, CUBA

YEARS

73-77

ALL WEATHER

COMBITION

6.7 \* 128

22

17 - 21

11 . 16

7 - 10

SPEED (KNTS) DIR.

2.4

1222

Z Z Z

12.0

MEAN WIND SPEED

48 - 55						
41.4						
34 - 46						
28 - 33						
12						

TOTAL NUMBER OF OBSERVATIONS

100.0

22.7

150

SMOS DIRNAVOCEANMET

000

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

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11706

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SSE SSE

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SSW WSW

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NAW CALM

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3.3.

2.0 0.9 13.3

36.0

MEAN WIND SPEED

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18

22 - 27

17 - 21

11 - 16

7 - 10

1.3

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8.5

5,6

1:1

11.6

21.3

31.4

28.3

1:7

1.0 4.6

1200

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

=

SEP

SURFACE WINDS

73-77 WEATHER ALL

GUANTANAMU BAY, CUBA

YEARS

CONDITION

1.2 2.2 1.4 10.2 9.2 100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

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11706

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155

TOTAL NUMBER OF OBSERVATIONS

0

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

E

SURFACE WINDS

HOURS (LS.T.) YEARS 73-77 ALL WEATHER GUANTANAMO BAY, CUBA

0

MEAN WIND SPEED	4.3	3.6	3.7	0.4	0.6		8.0	14.0	9.3	10.0	4.0	0.9		4.0	3.4	3.9			3.9
*	29.7	0.6	5.9	6.1	1.3		9.	9.	9.5	9.	9.	9.		9.	5.8	28.4		11.0	100.0
% Al																		$\bigvee$	
8 . 55																		X	
41.4																		X	
34 - 40																		X	
28 - 33																		$\bigvee$	
22 - 27																		$\bigvee$	
17 . 21																		X	
11 - 16					9.			9.	9.									X	1.9
7 . 10	3.2	1.9	9.				9.		1.9	9.						2.6		X	11.6
• •	16.1	1.3	1.9	1.3	0.						9.	9.		9.	5.7	13.5		X	38.7
<u>:</u>	10.3	5.8	3.9	9.											3.9	12.3		X	36.8
SPEED (KNTS) DIR.	z	W.	Z	E	3	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	×	MNN	VARBL	CALM	

0

0

0

0

0

5702 SURFACE WINDS JAN 78

=

288

155

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706

0

ALL WEATHER

=

SURFACE WINDS

0

HOURS (L.S.T.)

YEARS

CONDITION

7.10

4.6

1.3

SPEED (KNTS) DIR.

0

16.8

0.0

z

4000

Z Z Z

0

0

MEAN WIND SPEED	3.9	0.4	2.5	3.5	4.0	0	11.5	11.0	10.0	4.0	2.0	7.0	4.2		3.8
*	37.4	16.8	2.6	2.6	I. 3	0.	1.3	1.9	9.	9.	¢.	9.	21.9	11.0	100.0
95 Al														X	
48 - 55														X	
41.47														X	
34 - 40														X	
28 - 33														X	
22 - 27														X	
17 - 21														X	
91 . 1							•	•						M	1.3

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WSW WSW

SSW

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3.2

11.6

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CALM

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12.9

40.0

34.2

SMOS

DIRNAVOCEANMET

SURFACE WINDS

TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

STATION

100	MONTH	07	HOURS (L.S.T.)	
73-77	YEARS	ALL WEATHER	CLASS	CONDITION
GUANTANAMO BAY, CUBA	STATION NAME			

MEAN WIND SPEED	4.2	3.6	3.5	4.3	4.0			12.0	11.0			7.0		0.9		5.0			4.1
*	44.5	181	2.6	2.6	1.3			1.3	3.2			9.		9.		15.5		4.6	100.0
8																		X	
48 - 55																		X	
41.47																		X	
34 - 40																		$\bigvee$	
28 - 33																		X	
22 - 27																		X	
17 - 21																		X	
91 . 1								1.3	1.9									X	2.2
7 - 10	0.6	9.							1.3			9.				3.2	8 8 1	X	14.8
• •	16.1	7.7	1.3	1.9	0.									9.		0.6		M	37.4
::	19.4	1.6	1.3	0.	0.											3.2		X	34.8
SPEED (KNTS) DIR.	z	NE	w Z	ENE		ESE	35	SSE	•	SSW	SW	WSW	*	WWW	××	NNN	VARBL	CALM	

PERCENTAGE FREQUENCY OF WIND NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

ALL WEATHER

CONDITION

DIRECTION AND SPEED

SURFACE WINDS

28 - 33

22 - 27

17 - 21

11 . 16

7 - 10

-3

SPEED (KNTS) DIR.

0

5702 0 SURFACE WINDS JAN 7

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В		

155

10.3

100.0

0.6

10.3

38.1

31.6

10.1 MEAN WIND SPEED NOURS (L.S.T.) 100 25.52 12 48 - 55 41 - 47 YEARS 34 - 40

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

0

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- 25 25 25 25

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WSW WSW

SSW

WWW X

NNN VARBL CALM

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(3)

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

NO

PERCENTAGE FREQUENCY OF WIND

SURFACE WINDS

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706 STATION

0 1

ALL WEATHER

YEARS

\$

13 HOURS (L.S.T.)

UCT OCT

\$

CONDITION

0

#### SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

73-77

16 HOURS (L.S.T.) DCT.

0

CONDITION

:	•	7 - 10	91 . 11	17 . 21	22 - 22	28 - 33	34 - 40	41.47	48 - 55	8	*	MEAN WIND SPEED
1.3	1.9	2.0	1.3								7.1	7.4
9.	9.	3.2									4.5	6.9
	9.	1.3	1.3								3.2	4.6
		9.		9.							1.3	12.5
1.3	1.9	3.9	1.9								0.6	7.6
	1.9	0.6	7.1								18.1	10.0
	1.3	7.7	3.2								12.3	9.1
9.	1.9	3.9	1.3								7.7	8.1
1.3	4.5	5.6	•	9.							12.9	7.9
1.3	3.2	6.9	1.3								12.3	7.0
	9.	3.9	9.								5.2	9.3
	9.		9.								1.3	9.5
	9.										9.	5.0
		9.									9.	8.0
2.0											2.6	3.0
X	X	X	X	X	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	X	1,3	
0.6	20.0	49.0	19.4	1.3							10000	8.2

0

0

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155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

11706

GUANTANAMO BAY, CUBA

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

1081

155

TOTAL NUMBER OF OBSERVATIONS

=

19 HOURS (L.S.T.)

100 MONTH

SURFACE WINDS

SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAMO BAY, CUBA

11706 STATION

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MEAN WIND SPEED	5.8	6.2	8.7	4.2	8.9	4.8	4.9	9.7	5.3	5.0	7.3	5.3	5.8		4.3	5.9			5.0
*	12.3	14.2	6.9	3.2	11.0	5.2	4.5	3.9	3.9	3.2	3.9	2.6	2.0		1.9	8.8		15.5	100.0
<b>%</b>																		X	
48 - 55																		X	
41.40																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 22																		$\bigvee$	
17 · 21	•							9.										X	1.3
5			9.					1.3			•	0.						X	3.2
7 - 10	5.5	6.9	5.2		1.0	1.3	9.	9.	1.9	9.	1.9		9.			1.9		X	28.4
9:	3.6	4.5	9.	2.0	5.2	2.6	5.0		9.	1.9	1.3	9.	1.3		1.3	9.2		X	30.3
::	3.0	3.2		9.	3.9	1.3	1.3	1.3	1.3	9.		1.3	••		9.	1.3		X	21.3
SPEED (KNTS) DIR.	z	N.	ž	R	-	- 553	35	SSE	•	SSW	NS.	WSW	*	WNW	NA	MNN	VARBL	CALM	

8456

155

TOTAL NUMBER OF OBSERVATIONS

210

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ALL WEATHER

73-77

22 HOURS (L.S.T.)

UCT WONTH

CONDITION

0

WIND WIND SPEED	4.3	5.2	5.1	3.0	3.2		3.0	14.0	6.7	6.8	4.0		7.0	5.7	3.4	3.9			3.7
×	25.2	12.9	5.8	1.9	3.00		9.	9.	1.9	2.6	9.		9.	1.9	7.1	15.5		16.8	100.0
% AI																		X	
48 - 55																		X	
41 - 42																		$\bigvee$	
34 - 45																		$\bigvee$	
28 - 33																		$\bigvee$	
22 - 27																		$\bigvee$	
17 - 21																		$\bigvee$	
11 . 16		9.						9.	9.									X	1.9
7 - 10	3.9	1.9	1.9		9.					1.3			9.	9.		1.9		X	12.9
• •	0.6	6.9	2.6	9.	1.3				9.	1.3	9.			9.	4.5	7.1		X	34.8
1.3	12.3	3.9	1.3	1.3	3.9		9.		9.					0.	5.6	6.9		X	33.5
SPEED (KNTS) DIR.	z	N.	NE NE	ENE	F	ESE	SE	SSE	•	SSW	SW	WSW	*	WNW	N	NNW	VARBL	CALM	

(0)

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

GUANTANAMO BAY, CUBA

MEAN WIND SPEED

SURFACE WINDS JAN

SURFACE WINDS

I

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706

0

WEATHER

777

YEARS

ALL HOURS (LS.T.) UCT HONTH

0

CONDITION

SPEED (KNTS) DIR.	1.3	• • •	7 - 10	11 - 16	17 - 21	22 - 27	28 · 33	34 - 40	41 - 47	48 - 55	<b>8</b> 8	*
z	9.6	9.6	0.4	.2								23.1
W Z	4.3	4.3		7.								11.2
Ä	1.6	1.5	1:1	6.								4.6
ENE	•	1.5	.2	1.	7.							2.6
	1.4	1.9	1.4	1.0	7.							5.7
ESE	. 2	1.0	1.9	2.2	2.							5.3
SE	.2	9.	1.9	1.3								4.0
SSE	6.			1.5	7.							4.6
5	*.	1.2	5.9	1.1	-							5.7
SSW	. 2	6.	2.1	•								30.00
SW		<b>*</b> •	1:1	.2								1.9
WSW	2.	9.	7.	.2								1.0
*		9.	2.									1.2
WWW		• 3	-									
××	1.1	1.0	.2									2.3
MNW	6.4	B. C	1.0									12.3
VARBL												
CALM	$\bigvee$	$\bigvee$	X	X	X	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	$\bigvee$	6.6
	25.9	31.5	23.3	8.8	9.							100.0

SH

3.7 4,2

4.00 100.00 4.04

TOTAL NUMBER OF OBSERVATIONS

1240

0811

SMOS DIRNAVOCEANMET MEAN WIND SPEED

22 - 27

17 - 21

11 - 16

7 - 10

1.3

SPEED (KNTS) DIR.

0

3.3

2.0

23.3 2.2

Z

z

Z Z

-

SURFACE WINDS JAN 43

000

SURFACE WINDS

881

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77

YEARS

WEATHER

NOURS (L.S.T.)

NON

CONDITION

7.3 2.7 4.7 \* 128 48 - 55 41 - 47 34 - 40 28 - 33

E

5.0

TOTAL NUMBER OF OBSERVATIONS

150

3.9

10000

11.3

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

11706 STATION

GUANTANAMU BAY, CUBA

0

. .

WSW WSW

SSW

~

22 22 23

WNW NN W VARBL

\*

14.0

34.0

38.0

CALM

0

15.3

0

DIRNAVOCEANMET SMOS

SURFACE WINDS

E

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NO

(FROM HOURLY OBSERVATIONS)

73-77

GUANTANAMO BAY, CUBA

11706

0

YEARS

NOURS (L.S.T.)

NON

CONDITION

17 - 21

11 - 16

7 - 10

4.6

1.3

SPEED (KNTS) DIR.

5.3

2.0 21.3

25 25 25 25 25 25

0

SSW WSW WSW

w

1.3

ALL WEATHER

MEAN WIND SPEED	3.9	2.8	3.6	8.3	1.0					4.5	5.4		3.7
*	41.3	21.3	3.3	2.7	1.					4.0	18.0	8.1	100.0
99 Al												X	
48 - 55												X	
41.47												X	
34 - 40	T											X	
28 - 33												X	
22 - 27									1			X	

2.0

NW NAW VARBL

CALM

WNW

3

33.3

44.7

0

0

TOTAL NUMBER OF OBSERVATIONS

150

SMOS DIRNAVOCEANMET

150

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

200

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

07 HOURS (L.S.T.) NO. MONTH YEARS 73-77 ALL WEATHER CONDITION GUANTANAMU BAY, CUBA

MEAN WIND SPEED	4.4	3.2	3.1	7.0	6.0								6.0		5.0	6.5			3.9
*	49.3	22.7	5.3										1.3		1.3	10.0		8.7	100.0
% AI																		X	
48 - 55																		X	
41.0																		X	
34 - 40																		X	
28 - 33																		$\bigvee$	
22 - 27																		X	
17 - 21																		X	
11 - 16																		X	7.
7 . 10	6.7	. 7		.7												2.7		X	10.7
• •	24.0	6.7	1.3		1.								1.3		1.3	0.0	1	X	41.3
£:-	18.7	15.3	4.0				6						N.			~	1	X	38.7
SPEED (KNTS) DIR.	z	N.	NE	ENE		ESE	*	SSE	8	SSW	SW	WSW	*	WWW	NA	NNN	VARBL	CALM	

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706 STATION

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1843

SURFACE WINDS

73-77 ALL WEATHER

NOURS (L.S.T.)

NON MONTH

11.90 5.0 MEAN WIND SPEED 25.3 1.3 4.0 \* 128 48 - 55 41 - 47 34 - 40 28 - 33 22 - 27 17 - 21 - O 11 . 16

2.0

10.0

Z

2 2

0

w

25 SE 55

0

7 - 10

4.6

1.3

2
VATION
X
OBSERV
0 50
_
UMBER
7
TOTA

130

4.8

100.0

10.7

16.7

26.7

35.3

2.0

VARBL CALM

WSW WSW

0

SSW

w

0

WNW N N

\*

10.0

SMOS DIRNAVOCEANMET

2

0 .()

11706

CUANTANAMO BAY, CUBA

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

1

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13 HOURS (L.S.T.) NDA YEARS WEATHER CONDITION ALL GUANTANAMU BAY, CUBA

256 % WIND SPEED	4.0 9.2	4.8 0.9	-	2.0 9.0	5.3 10.5	26.7 11.2	14.7 9.5	16.7 6.7	7.3 8.5	2.7 9.5	4.7 6.9	1.3 7.5		1.3 5.0	.7 1.0			0°2	
41 - 47 48 - 55																			
34 - 40																			
22 - 27 28 - 33																		X	
12 - 21	9		0			3 2.0	0	~	7	7									
7 . 10 11 . 16	1.3 1.3	5.3	2.0 2.0	2.0	1.3 2.0	8.0 13.3	9.3 4.0	11.3 3.3	•	1.3	2.7	٠.		٠.				$\bigvee$	
4.6 7.	1.3	۲.			1.3	2.7	1.3	1.3	2.0	۲.	1.3							$\bigwedge$	
1.3						k.		۲.						r.	۲.			X	
SPEED (KNTS) DIR.	z	Z	w Z	EXE		ESE	35	358	s	ASS	MS	WSW	*	MNM	WW	MNN	VARBL	CALM	

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

73-77

TOTAL NUMBER OF OBSERVATIONS

0

0

0

#### SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 GUANTANAMO BAY, CUBA NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

мизиму	

ALL WEATHER

11706

0

NOUNS (L.S.T.)

NOV

SPEED (KNTS) DIR.	1.3	•••	7 - 10	31.16	17.21	22 - 27	28 - 33	34.40	4.0	48 - 55	8	×	MEAN WIND SPEED
z		1.3										2.0	-
NN		1.3	3,3									5.3	8
w Z		• 1	1.3	2.7								4.7	10
ENE		4.		L. 3								2.0	6
		2.0	10.7	7.3	1.3							21.3	10.5
ESE		6.0		10.01								22.7	9.
SE		1.3	9.0	0.4								13.3	9.8
SSE		3.3	2.7									6.0	6.8
5		2.0										6.7	1
SSW		3.3										0.9	5.9
SW		2.0	1.3	1.								4.0	6.5
WSW		1.3										2.0	4.0
*													
WWW													
WW													
ANN		•										1.3	8.0
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	2.7	
	1.3	24.0	44.0	26.7	1.3							100.0	8.8

19 HOURS (L.S.T.)

NON

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

YEARS 73-77 ALL WEATHER GUANTANAMO BAY, CUBA

11706

1556

CONDITION

8.1 4 4 4 2.0 4.0 WIND WIND SPEED 10000 1.3 8.0 \* 12 48 - 55 41 . 47 34 - 40 28 - 33 . 27 22 17 - 21 3.3 11 . 16 9.0 S 80 2.7 7 - 10 2.3 30 2.0 ..3 SPEED (KNTS) DIR. \* \*\* VARBL ASW WSW KNN CALM Z Z Z 25 22 25 25 25 25 ž \*

TOTAL NUMBER OF OBSERVATIONS

150

5.8

100.0

8.0

33.3

32.0

18.7

0

0

4.6

DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

#### SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

VEARS

22 HOURS (1.5.T.)

NON

CONDITION

KNTS)	6	• •	7 - 10	1. 16	17 - 21	22 - 27	28 - 33	34 - 40	41.47	48 - 55	% Al	*	MEAN WIND SPEED
z	0.8	9.3	2.7	1.								20.7	4.5
W.	7.3		4.0									18.7	4.6
N.	2.0			1.3								6.9	5.0
ENE	۲.											1.3	6.5
	2.7											2.7	2.5
ESE												4.	0.4
SE													
SSE													
8	1.3											1.3	2.5
SSW													
SW													
WSW													
*													
WNW			1.3									1.2	5.5
¥	1.3	2.7										1.4	0.4
NNN	4.7	10.7	0.9	1.3								1.52	5.6
VARBL					10								
CALM	X	X	X	$\bigvee$	15.3								
	28.7	36.7	16.0	3.3								100.0	4.1

-

150

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

12575 62181

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

11706

GUANTANAMO BAY, CUBA

0

0

0

0

1200

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS) 73-77 GUANTANAMO BAY, CUBA

COMBITION

ALL WEATHER

0

ALL HOURS (L.S.T.)

NON

YEARS

MEAN WIND SPEED	4.3	4.8	0.9	7.5	8.9	6.6	8.9	1.8	7.5	6.7	6.3	4.8	0.9	5.6	8.4	5.7			5.5
*	24.5	15.8	8.2	3.0	6.1	7.2	2.4	3.1	2.1	1.2	1.2	6.	2.		1.9	11.7		8.3	100.0
% Al			1															X	
48 - 55																		X	
4.0																		$\bigvee$	
34 . 46														-				$\bigvee$	
28 - 33																		$\bigvee$	
22.27																		X	
17 - 21																		X	
11 . 16	9.	4.	1.2	0.	2.0	3.0	1:0	*	1.	7.	7.				7.	9.		X	10.2
7 - 10	3.2	3.8	2.1	1.3	1.8	2.2	2.3	1.7	1.2	3.		7.		E.	~	3.1		X	24.6
• •	9.1	6.4	2.1	5.	1.2	1.2	9.		•		·.			.2	1.0	5.5		X	20.2
r: 3	11.0	6.7	2.2		30	3.	2.	7.	.2	.2	.2	7.		N		2.5		X	26.1
SPEED (KNTS) DIR.	z	Z Z	¥	ENE		ESE	*	SSE	8	SSW	SW	WSW	>	WWW	ž.	NNN	VARBL	CALM	

081

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

0

0

10

1.0

6.0

1.0

9.0

..

1.9

20.00

WSW WSW

0

0

0

SSW

50

0

SSE SSE

0

WNW N N VARBL CALM

\*

10.3

17.4

45.2

155

TOTAL NUMBER OF OBSERVATIONS

4.6

SURFACE WINDS

I

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

GUANTANAMO BAY, CUBA

11706

0

0

73-77

ALL WEATHER

CONDITION

28 - 33

. 27

22

17 - 21

11 . 16

7 . 10

- 3

SPEED (KNTS) DIR.

1.3

4.5

Z

z

¥ %

0

w

F. 9.

0

NOURS (L.S.T.)

DEC

9 9 9 6 MEAN WIND SPEED 30.3 2.0 9. 9. 9. 37.4 7:1 100.0 \* 12 40 - 55 41 . 47 34 - 40

> SMOS DIRNAVOCEANMET

NO

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

5702 SURFACE WINDS JAN 78

SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER

GUANTANAMO BAY, CUBA

11706

YEARS

COMBITION

0

NOURS (LS.T.)

DEC

MEAN WIND SPEED	5.0	3.7	3.4	3.0		T		3.0					T	7.9	6.1			7
*	41.9	18.1	3.2	9.				9.						4.5	22.6		4.6	000
% Al																	X	
48 . 55																	X	
41.47																	X	
34 - 40																	X	
28 - 33																	X	
22 - 27																	X	
17 - 21																	X	
91 . 16	1.9													9.			X	2.6
7 - 10	7.1	9.												3.2	0.6		X	20.0
:	21.3	9.0	1.3											9.	7.7			0.04
	11.6	8.4	1.9	9.				9.							5.8		$\langle \rangle$	29.0
SPEED (KNTS) DIR.	z	NN.	Z.	ENE	ESE	35	SSE	8	SSW	SW	WSW	*	WNW	¥	NNN	VARBL	CALM	

E

DIRNAVOCEANMET SMOS

383

TOTAL NUMBER OF OBSERVATIONS

155

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

=

0

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

	DEC	MONTH	07	MOURS (L.S.T.)	
(FROM HOOKET OBSERVATIONS)	73-77	YEARS	ALL WEATHER	\$877	COMBITION
	GUANTANAMO BAY, CUBA	STATION NAME			

MEAN WIND SPEED	5.2	3.5	3.5	3.0	2.0								6.0	8.0	7.8	6.2			4.8
*	45.2	10.4	6.9	1.3	9.								9.	9.	3.2	18.7		3.9	100.0
% Al																		X	
8 - 55																		X	
4.4																		X	
34 - 46																		X	
28 · 33																		X	
22 - 27																		X	
17 . 21																		X	
11 - 16	1.3															1.3		X	2.6
7 - 10	11.6													9.	2.6	5.8		X	20.6
;	20.0	0.6	2.6	9.									9.			8.4		X	41.3
	12,3	10,3	3.9	9.	0.										9.	3.5		X	31.6
SPEED (KNTS) DIR.	z	NNE	NE NE	ENE		ESE	35	SSE	s	SSW	SW	WSW	*	WNW	¥	NNW	VARBL	CALM	

1

155

TOTAL NUMBER OF OBSERVATIONS

10.3

20.6

34.5

29.7

CALM VARBL

2.0

2:5

SURFACE WINDS

2

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

GUANTANAMO BAY, CUBA

11706 STATION

73-77

YEARS

ALL WEATHER

CONDITION

0

NOURS (L.S.T.)

DEC

MEAN WIND SPEED	5.8	4.2	5.5	0.9	10.4	14.5	2.0		3.0		1		7.0	5.8		5.6
×	29.7	23.9	12.3	11.0	6.5	1.3	9.		9.			+	9.	10.3	3.2	100.0
85 VI																
48 - 55																
41 - 47									1							
34 - 40										1						
28 - 33																
22 - 27																
17 - 21	0.				•	9.		1							X	1.9

2.6

4 . 5 . 6 . 1

2.2.6

3.6

SSW

s

SSE SSE

w

WSW

\*

3K

WNW N X

12.3

Z

Z ENE

11 . 16

7 . 10

4.6

1.3

SPEED (KNTS) DIR.

SMOS DIRNAVOCEANMET

0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

#### SURFACE WINDS

E

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

9 0

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

DEC	MONTH	13	HOURS (L.S.T.)	
73-77	YEARS	ALL WEATHER	CLASS	CONDITION
GUANTANAMU BAY, CUBA	STATION NAME			

NH	SPEED (KNTS) DIR.	::	;	7 . 10	9: -1	17 . 21	22 - 27	28 - 33	34 - 40	41.47	48 - 55	% %	*	MEAN WIND SPEED
1.9 2.6  1.0 3.2  1.0 3.2  1.1 3.0  1.2 10.3  1.3 2.6  1.3 2.6  1.3 2.6  1.4.5 9.7  1.4.5 9.7  1.5 1.6  1.6 1.6  1.7 1.7 1.8  1.8 1.9  1.9 1.0  1.9 1.9  1.9 1.9  1.9 1.9  1.9 1.9  1.9 1.9  1.9 1.9  1.9 1.9  1.9 1.9  1.9 1.9  1.9 1.9	z		9.	2	2.6									
1. 3 12.9 33.2  1. 4. 5. 6 1. 3  1. 6 3.9  1. 7 6 1. 3  1. 8 6. 9. 0  1. 9.	NNE			1.9	2.6								4.3	
1.3 12.9 38.7 40.0 5.8	ZE		9.	1	3.2								5.8	10.
1.3 10.3 1.3 .6 3.9 11.0 2.6 1.3 2.6 .6 3.9 .6 3.9 .6 .6 .6 .6 .6 .6 .6 .6 .7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	ENE				•								9.	
1.3 12.9 38.7 40.0 5.8				1.3	0	1.3							12.9	13
1.3 8.4 9.0 1.3 4.5 9.7 .6 1.3 2.6 1.3 2.6 3.9 3.9 4.5 3.9 1.9 1.9 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	ESE		9.	6.0	11.0								18.1	
1.3 2.6 1.3 2.6 1.3 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	38		1.3	4.8	0.6	1.3							20.0	11.3
11.3 2.6 4.5 4.5 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	SSE		4.5	6.4		9.							14.8	7.9
1.3 12.9 38.7 40.0 5.8 100.0 1	s		1.3	2.6									3.9	7.0
1.3 12.9 38.7 40.0 5.8 100.0 1	SSW		9.	3									4.5	7.3
1.2 12.9 38.7 40.0 5.8 100.0 1	SW		1.3	9.									6.1	5.
1.3 12.9 38.7 40.0 5.8 100.0 1	WSW			9.	9.								1.3	::
1.3 12.9 38.7 40.0 5.8	*	3.	*										9.	
1.3 12.9 38.7 40.0 5.8	WNW	•											1.3	3.0
1.3 12.9 38.7 40.0 5.8	NN													
1.3 12.9 38.7 40.0 5.8	NNN		1.3	1.3									2.6	6.5
1.3 12.9 38.7 40.0 5.8	ARBL													
.9 38.7 40.0 5.8	CALM	$\bigvee$	$\bigvee$	X	X	X	M	X	X	X	$\bigvee$	$\bigvee$	1.3	
		1.3			40.0	5.8							100.0	

TOTAL NUMBER OF OBSERVATIONS

1915

155

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

ALL WEATHER

YEARS

73-77

CONDITION

0

16 HOURS (L.S.T.)

% WIND SPEED	6.5 10.2	4.5 11.6	5.8 10.8	3.2 10.8	14.8 10.4	23.2 11.8	17.4 9.1	3.9 8.8	6.5 7.1		1.9 8.3	1.9 9.0	1,3 9,0			2.6 8.3		9.	
VI Sk																		$\setminus$	
48 - 55																		$\bigvee$	
41 . 47																		$\bigvee$	
34 - 40																		$\bigvee$	
28 - 33																		X	
22 - 27																		X	
17 - 21						1.3	9.											X	
1 . 16	1.9	2.6	3.9	1.3	6.5	14.8	2.6	1.3		0.		0.						X	
7 . 10	3.9	1.9	1.3	1.9	6.5	4.5	12.3	7.9	4.5	1.9	1.3	9.	1.3			1.9		X	
•	9.		9.		1.9	2.6	1.9		1.9	3.2	9.	9.				9.		X	
								5.										X	
SPEED (KNTS) DIR.	z	NNE	N.	ENE	3	ESE	35	SSE	s	SSW	SW	WSW	*	WWW	NW	NNN	VARBL	CALM	-

DIRNAVOCEANMET SMOS

0

11706

GUANTANAMO BAY, CUBA

0

0

0

0

0

TOTAL NUMBER OF OBSERVATIONS

0

19 HOURS (L.S.T.)

DEC

PERCENTAGE FREQUENCY OF WIND

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

20

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

SURFACE WINDS

YEARS 73-77 ALL WEATHER

CUANTANAMO BAY, CUBA

11706

0

0

0

0

0

COMBITION

WIND WIND SPEED	7.2	7.6	9.9	6.3	5.9	7.4	0.9	8.0	5.3	3.7	1.1	5.0	12.0		3.5	8.0			6.2
*	12.9	16.1	14.8	10.3	0.6	6.5	6.5	9.	2.0	7.0	1.9	1.9	0.		1.3	4.5		8.4	100.0
8																		X	
48 . 55																		X	
41.4																		X	
34 - 40																		X	
28 - 33																		X	
22 - 27																		X	
17 - 21																		X	
11 . 16	9.	2.6	1.3	9.	••	1.3					9.		9.			1.3		X	6.7
7 . 10	5.2	0.6	5.5	2.6	1.9	1.3	3.2	9.	9.			9.				1.9		X	32,3
••	7.1	3.2	7.1	6.9	5.4	3.2	1.9		1.3	1.3	1.3				9,	9.		X	40.0
• • •		1.3	1.3	9.	1.3	9.	1.3		•	9.		0.			9.	9.		X	9.7
SPEED (KNTS) DIR.	z	N.	¥	ENE		ESE	SE	SSE	•	SSW	SW	WSW	*	WNW	×	NNN	VARBL	CALM	

0

0

0

0

0

0

DIRNAVOCEANMET SMOS

4.0

5.300

=

155

TOTAL NUMBER OF OBSERVATIONS

MEAN WIND SPEED

. 33

28

. 27 22

17 - 21

11 . 16

7 - 10

-3

SPEED (KNTS) DIR.

0000

\$

6.€ 1.9

9.0

3.9

Z

ENE

-

Z

8 8 9 0 0

4.

SURFACE WINDS

=

PERCENTAGE FREQUENCY OF WIND

(FROM HOURLY OBSERVATIONS) DIRECTION AND SPEED

GUANTANAMO BAY, CUBA

ALL WEATHER

73-77

YEARS

22 HOURS (L.S.T.)

CONDITION

23.2 16.1 1.96 0 . 11.0 21.3 1.3 100.0 \* 2 48 - 55 . 47 7 34 - 40

DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

11706

25 22 22 25 22 23

WSW

NS.

\*

SSW

•

\*NA NW VARBL CALM

0000

10.20

6.3

5.0

16.1

45.2

25.2

\$

ALL HOURS (L.S.T.)

DEC

### SURFACE WINDS

DE

PERCENTAGE FREQUENCY OF WIND

DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73-77 ALL WEATHER CONDITION GUANTANAMO BAY, CUBA

MEAN WIND SPEED	5,5	5.1	6.3	6.7	10.0	11.3	9.6	7.9	6.3	6.5	6.9	8.1	4.9	5.0	6.3	5.9			6.3
*	25.1	14.0	7.5	3.8	2.0	4.9	2.6	2.5	1.9	1.5	00	9.	9.	9.	3.0	14.4		5.5	100.0
% Al																		X	
48 - 55																		X	
4.4																		$\bigvee$	
34 . 40																		$\bigvee$	
28 - 33																		X	
22 . 27																		X	
17.21	-				.2	9.	.2	.1										X	1.2
11 . 16	1.5	1.3	1.2		2.5	3.	1.5	.2		7.	7.	7			.2	*		X	13.6
7 . 10	0.0	2.2	1.1	9.	1.5	1.3	200	-	1.0		.2	.2	.2	.2	1.3	4.8		X	26.5
• • •	11.2	5.3		1.5	1.0	•	0.	9.	9.	9.		. 4	2.	3.	1.6	6.2		X	34.2
.:	4.9	5.2	1.9		•	.2	2.		. 2	.1		. 1	. 2	٦.	S.	2.9		X	19.3
SPEED (KNTS) DIR.	z	NNE	NE	ENE	E	ESE	SE	SSE	s	SSW	SW	WSW	*	WNW	NW	NNW	VARBL	CALM	

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

0 0

0

0

1111

1240

TOTAL NUMBER OF OBSERVATIONS

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

25

SURFACE WINDS

73-77 ALL WEATHER

CONDITION

YEARS

0

ALL HOURS (L.S.T.)

ALL

8.4 8.7 3.0 4.5 4.0 1.7 1.7 2.2 1.2		17 - 21	2.2	28 - 33	34 . 40	41 - 47	48 - 55	% Al	*	MEAN WIND SPEED
2.2 1	0	0.							20.6	4.4
1.0	×.	0.							10.7	
0.1	2	0	0.						2.6	2.6
-	4.	0.							2.0	4.4
.0 1.3 2.	1 2.2	*	0.						7.3	0
.5 1.2 2.	5		1.						0	10.
.5 6. 4.	9.2 9.	~	0.						9.9	0
.9 2.	1.3	-	0						8	00
8.		•							3.5	8.0
1 1.	4.	0.	0.						2.6	7:7
•	•	0.							1.9	7.5
. 6. 5.	.2	0.							1.3	6.7
• •	2	0.							-	4
.3 .4	2 .0								0	4.7
. 1.3	1.								2.8	5.2
.4 4.7 2.		•							10.8	10
										2
X	X	X	X	X	X	X	X	X	1.1	
.7 29.8 23.3	3 13.8	1.6							100.0	13

1980

DIRNAVOCEANMET SMOS

11706

GUANTANAMO BAY, CUBA

900H

9888

SURFACE WINDS

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PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

(FROM HOURLY OBSERVATIONS)

GUANTANAMU BAY, CUBA

11706

INSTRUMENT

73-77

ALL

ALL HOURS (LS.T.)

0

AND/DR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT DR MORE CIG 200 TO 1400 FT W/VSBY 1/2 MI UR MORE,

MEAN WIND SPEED	5 7.3	8 6.0	13	0.1 8.	8.8	6.11.0.	.3 12.7	12.8	.n 15.0	0 16.3	.8 8.0	1.8 5.0			5 8.0	8 8.4		5	0
*	10	8.8	3	-1	14.0		5	14.	7.		1.	1.	1.8		3.5	8.8		3.5	000
8																		$\bigvee$	
8 . 55																		X	
4.0																		$\bigvee$	
34 . 40																		$\bigvee$	
28 - 33																		$\bigvee$	
2.2			1.8							1.8								$\bigvee$	
17.21	1.8					1.8	1.8	3.5	1.8	1.8								X	
	1.8	1.8			39.7	B	7.8	5.3	5.3	1.8						5.3		$\bigvee$	
7 . 10		1.8			8.8		3.1	3.5		1.8	1.8				1.8			$\langle \rangle$	
:	3.5	1.8			3.5	3.5		1.8				1.8			1.8			$\bigvee$	
:	3.5	3.5		1.8									1.8			3.5		$\langle \rangle$	
KNTS) DIR.	z	N.	ž	2		ESE	35	386	s	SSW	SW	WSW	*	WNW	NN	NNN	VARBL	CALM	

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

0

0



#### TO

# CEILING VERSUS VISIBILITY

equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to presented as follows:

- . Annual all years and all hours combined
- . By month all years and all hours combined
  - By month by standard 3-hour groups

station was meeting or exceeding any given set of minima may be determined from the figure at the intersection reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visiferring to totals in the extreme right band column. Also, visibility may be determined independently by bility. The totals progress to the right and downward. Ceiling may be determined independently by reon pages 2 and 3 below. U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Mavy stations the "no includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

	0	79		95.6			E S	98.1	107	100.0
	% ~	7	)	10 to					51± 1	
	≥ 5/16	7(	1		I ware					
	۸ ۱				6.11		7. D 870			THE STATE
	% N		)		0.0		97		1000	1483
	% Al	)	1				10 ME		100 000	
(5)	1 1			Ü			o Tombe	7.79	(28 by	98.3
VISIBILITY (STATUTE MILES)	% 1 ×	1		ell sale	10.00				TIFA.	10.0
BILITY (ST.	×1 ≤	3		BOLD.	3-440					1
VISII	N N	(		à cje	NEW O					6.96
	> 2 %	7(		0.00	10 K 10 K					100 A
	N N	7		91.0						4.56
	4	(			0.00				4.10.0	Tang tra
	25	7	)	20.50 mil	7					
	9 1	7(							200	
	01 4	3	7		1 000				g AZB	
CEILING	(FEET)	NO CEILING		≥ 1800 ≥ 1500	N 1200	N N	VI VI	VI VI 00.4 00.4	N N 30	N N

Read ceiling values independently of visibility under column at right headed > 0. For instance, from the table: Ceiling > 1500 feet = 92.64. Ceiling > 500 feet = 98.14. EXAMPLE # 1

Read visibilities independently of cellings on bottom line opposite > 0. From the table: Visibility > 3 miles = 95.4%.
Visibility > 2 miles = 96.9%.
Visibility > 1 mile = 98.3%. EXAMPLE # 2

To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling > 1500 feet with visibility > 3 miles = 91.0%. EXAMPLE # 3

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given In the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet</p> and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value observations meeting the lower set of limits, but not meeting the higher set of limits. In the table for the second set of limits. The difference will be the percentage of

The value 91.0 read from the table at the intersection of > 1500 feet with > 3 miles, subtracted from 97.4 read from the table at the intersection of > 500 feet with > 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling > 500 feet with visibility > 1 mile, but < 3 miles; or ceiling > 500 feet, but < 1500 feet with visibility > 1 mile.

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

#### PART D

#### SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

0

- 1. By month and annuel all hours and all years combined.
- 2. By month by standard 3-hour groups.

Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This available, were punched for Air Force stations beginning in 1946, but were not available for summary will, of course, be limited to period of available data. NOTE: # 1:

Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

TENTHS	01	m4 ww	8 6 6
			red)
OKTAS	01	വ നച ഹ	6 7 8 (or obscured)

CEILING VERSUS VISIBILITY

New Contraction Franchis

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTAMAMO BAY, CUBA

73-77

11.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 HOURS (LS

BORE

90.3 98.1 99.41:00.01:0 66 Ai 8006 91.6 98.1 4.66 7.66 4.66 4.66 90.3 95.5 95.5 95.5 97.4 95.5 95.5 93.6 ٨١ 93.6 93.6 93.6 6006 91.6 2.46 95.5 80.3 91.6 4.16 4.66 90.3 98.1 4.66 4.66 4.66 4.66 4.66 4.66 98.7 2 5/16 93.6 4.66 95.5 95.5 8006 98.1 90.3 97.4 7.86 2 Al 91.6 80.3 6.06 90.3 94.2 95.5 95.5 90.3 95.5 4.16 916 93.6 98.1 4.66 4.66 9116 98.7 4.66 4.66 4.66 ٨I 99.5 95.5 4.66 91.6 90.3 90.3 91.6 93.6 93.6 2.46 95.5 95.5 95.5 1.36 4.66 4.66 91.6 95.5 95.5 95.5 95.5 58.7 % M 98.1 91.6 4.66 91.6 8.06 91.6 93.6 2.46 4.66 6.06 93.6 93.6 93.6 95.5 95.5 95.5 95.5 7.86 4.66 4.66 6.06 ٦. VISIBILITY (STATUTE MILES) 80.3 91.6 91.6 80.3 91.6 2.46 4.16 93.6 93.6 93.6 7.86 4.66 4.66 4.66 4.66 4.66 90.3 90.3 98.1 4.66 4.66 4.66 4.66 7.66 \ \ \ \ 97.4 95.5 91.6 90.3 90.3 34.5 98.7 98.1 98.1 94.2 91.6 91.6 93.6 91.6 95.5 4.16 6.06 8006 4.66 89.7 4.66 7.86 17 91.6 91.6 91.6 93.6 93.6 4.46 95.5 95.5 90.3 4.66 4.66 90.3 90.3 34.5 95.5 95.5 98.1 7.86 4.66 4.66 7.66 4.66 4.66 4.66 4.66 4.66 1 2% 93.6 91.6 95.5 91.6 95.5 95.5 95.5 95.5 93.6 4.76 98.1 6.06 90.3 91.6 7.86 4.66 94.2 ۸I 4.16 91.6 60.3 90.3 91.6 95.5 95.5 95.5 95.5 95.5 98.1 93.6 93.6 91.6 93.6 7.66 4.66 4.66 80.3 98.7 ۸۱ 93.6 91.6 91.6 4.66 600 91.6 4.66 4.16 1.86 89.7 4.66 90.3 VI VI 93.6 93.6 91.6 95.5 90.3 91.6 91.6 9.26 4.66 98.7 6.06 90.3 98.1 4.66 10.68 4.66 ٥ ٨١ 2.5 2.5 2.5

3500

0

4500

AI AI

0

2500

1800

ALAI

0

1200

88

88

88

AL NUMBER OF OBSERVATIONS

155

80

200

NO CEILING

(FEET)

VI VI 0008 1 VI 0009 1 VI

Y 1400

2000

0

2000

AI AI

0

CEILING VERSUS VISIBILITY

GUANTANAMO BAY, CUBA

MENTHER SERVICE DETACHMENT, ASHEVILLE, NC

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

O.4 HOURS (1.5.T.) LAN

Bone

CERTING							VISI	IBILITY (ST.	VISIBILITY (STATUTE MILES)	(S)						
(*EET)	5	9	\$9 A1	4	N AI	> 2%	14	۷۱ ۲۲	VI %1	Ā	% Al	* AI	% Al	2 5/16	VI N	٥
NO CEILING		88.4	88.4	88.4	4.88	88.4	88.4	88.4	88.4	88.4	88.4	88.4	4.88	88.4	88.4	88.4
> 20000		89.0	89.0		89.0	89.0	89.0		89.0	0.68	89.0	89.0	89.0	89.0	89.0	89.0
V 18000		89.0		89.0	89.0	0.68	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
16000	3.9	89.0	89.0	89.0	89.0	0.69	89.0	89.0	89.0	0.68	0.68	89.0	89.0	89.0	89.0	89.0
		89.7		89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	6	89.7	89.7	89.7
12000	3.9	90.3	6006	90.3	60.3	·	6.06	90.3	0	8003	0	80.3	90.3	80.3	90.3	600
	3.9	60	6.06	6006	90.3	90.3	90.3	6.06	8006	6.06	0	6.06	0	90.3	90.3	90.3
000	0.0		.06	90.3	6.06	90.3		90.3	90.3	800.3	90.3	0	8.06	90.3	0	8.06
	4.5	94.2	0	94.2	94.2	94.2	3.46	2.46	2.46	34.2	*	2.46	4	94.2	94.2	2.46
7000	4.5	94.2	. 46	94.2	94.2	94.2	84.5	2.46	94.2	3.46	3.46	*	2.46		*	2.46
	4.5			8.46	8.46	8. 56	8.76	8.46	8.46	8.46	8.76	8.76	8.46	8.46	94.8	94.8
2000	4.5			95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
	4.5		1	98.5	95.5		5	95.5	95.5		5	69.56	95.5	95.5		95.5
141	4.00			95.5	95.5	95.5		95.5	95.5	95.5	95.5	98.5	95.5	95.5	95.5	95.5
	2:5			4.26	4.76	4.16	4.16	4.76	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16
300	5.5	98.1	98.	1.86	98.1	98.1		98.1	98.1	98.1	1.86	98.1	98.1	98.1	98.1	98.1
1	5.5	98.7	98.7	98.7	28.7	98.7	7.86	48.7	7.86	7.86	2.80	4.86	1.86	48.7	1.86	2.86
7 2000	5.5	4.66		4.66	4.66	4.66	7.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66
	3.5	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	7.66	4.66	4.66	4.66
1500	3.2	100.00100	100.001	100.001	0.00	100.00	100.001	100.00	100.001	00.00		10.	00.00	0.00		0.00
	5.5	10000	100.0	100.001	0.001	0.001	00.00	100.00	100.00	00.00		10.		0.00	100.00	0.00
1000	5.2	10001	100.0	100.00	10000	100.001	0.00	100.00	100.001	00.00	00.00	00.00	00.00	0.00	100.00	0.00
	5.5	100.0	100.00	100.00	0.00	0.001	100001	100.00	100.001	0000	00.00	0.	.0	0.00	10.001	0.00
800	5.2	100.0	.001	100.001	100.001	0	100.00	100.00	100.00	00.00	0	0.		0000		0.00
	5.5	100.0	100.001	10000	0.001	0.001	100.00	10.00	10.001	0000		10.	0	0.00	10000	0.00
00 1 A I	2.5	100.0	100.001	100.001	100.00	10000	100.00	100.00	100.00	00.00	00.00	00.00	00.00	0.00	100.00	0.00
80	5.21	0.00	0	0.00	0.001	.0	0.001		100.00		0	0	0	0	100.001	0.00
V 400		0.00	100.001	100.001	0.001		100.00	100.00	100.00	00.00	00.00	0	00.00	0.00	100.001	0.00
300	5.5	0	ò			0				0	0	0	0	0	0	0.00
	-	100.0	•	100.00	0.00		0000	100.00		0	0	0.0	0	0	0	0.00
80	N 0	000	00	0	0.00	000		000	000	0000	000	000	000	0000	0000	000
		2	0	•	•	5	0.00	•	•	•	5	,	5	5	5	0.00

0

0 0

TOTAL NUMBER OF OBSERVATIONS

155

-

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 HOURS (1.5.T.) MAL

2

0

	0	5.5	. 5		5.2	:	1.1	1.7	3.3	9.3	0	9.1	. 3		7.7	4.4	3.7	4.4	4.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000	0.0	0.0	000	000
	٨١	8 8	84	8	85	8	8	87	90	90	16	6	92	92	96	6	96	66	6	100	001	100	100	100	001	001	001	001	001	001	0	100
	7	0 50	3	3	.2	-	-	. 7	•	.3	0		•		-	4		*	*	0	.0	0			0.	0	0	0	0	0	0	
	Al	82	84	84	85	87	87	87		60	16	6		92	96	97	86	66	66	8	00	8	8	8	00	8	8	8	8	8	8	8
	5/16	0 10	5	2	~	-	-		3	3	0	9		•	-	4		4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
	18 5/	82	84		85	87	87	87	06	06	16	6	35	36	96		98		66	00	00	00	00	00	00	00	00	8	00	00	00	00
		200	5	10	~	-	-	~	m	3	0	9	m	m	-	*	-	*	*	0	0	0	0	0	0	0	0	5	0	0	5	0
	VI Z	82.	84.	84.	85.	87.	87.	87.		90.	91.	91.		92.		97.		66	66	00	00	00	00	00	00	00	00	8	00	8	8	00
		0 50	*	S.	2	-	-	1	9	•	0	9	m	3	-	4	-	4	3	-	10	-	0	0	-	-	-	-	4	0	-	0
	AI **	82.	84.	84.	85.	87.	37.	87.	06	90	91.			92.			86	39.	66	ò	00	00	00	00	00	00	00	00	00	8	00	8
		00	5	20	2	_	-	7	_	2	0		6		-4	4	1	*	4	-	010	-	0	0	-	-	0	-	-	-	-4	0
	% Al	24	*	4	5.	2	-	7.		0		-						6	6	0	00	0	00	0	00	0	00	0	00	0	ò	00
		20 00	80	80	2	-	- C	7 8		0	6 0		3	6	6	4	6 2	0	6	-	010	-	010	010	-	010	010	-	010	010	-	010
	- AI	2.4	*	*	5	-		1.	•	0	:	•	•	2	. 9	-	8	6		0	0.0	0	0	0.0	0	0	0	0	0.0	0		0
LES)		<b>80 30</b>	30	20	3	30	00	80	6		0		-		5		0	0	0	2	01	2	9	2	2	9	0	2	2	0	100	01
¥	1.7	9 5		5	.2		:	1.	.3		0	9.		•	-	4.		4.	4.	0	0.	0:	0.		0	•	0		0		0:	.0
VISIBILITY (STATUTE MILES)	Al	82	8	8	35	8	8	8	06	90	6	5		92		6		66	66	001	001	100	001	100	007	100	001	001	001	100	001	100
Y (ST	1.7%	0 20	.5	·	~	~	-	. 7	. 3		0.	9.			-	3.		4	4.	0.	0.	.0	0.	.0	0.		.0	.0		0.	.0	.0
BILT	Al	82	40	8	8	87	87	87	06	90	91	16		92	96	97		66	66	00	00	00	00	00	00	00	00	00	00	00	00	00
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	Al	82	48	84	8	87	87	87	06	06	6	91	26	20		67	86	66	66	00	00	00	00	00	00	00	00	00	00	00	00	00
		2 00	5	50	~	-	-	2	3	~	C	9	50	m		4	-	*	4	0	0	0	0	0	0	0	0	o	0	0	0	0
	> 2%	8 2 2		34.	85		7.	87.	06	30.	91.	-	92.			97.	86	66	66	00	00	00	00	00	00	.00	00	00	00	00	00	00
		9 10	-	5	2	-	1 8	2	3	6	0	-	3		7	4	7	4	4	ŏ	0	70	010	0	0	5	0	5	0	0	010	0
	ε Al	23	*		5	:	1:	-	0		-	-	3.	·			8		6	0	0	0	.00	00	00	00	00	.00	0	0	0	0
		ac ec	80	00	80	00	00	30	5	0	0	0	0		0	0	0	0	0	010	010	2	-	-	-	-	010	-	010	10	010	10
	*	9.5		4.5		-	7.1		0.3	0.3	0.1	1.6	2.3		6.1	7.4		7.6	4.6	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	AI	00 00	œ	80	0	0	œ	à	6	ŏ	0	0	6		ŏ		5	ŏ	3	0	0	ŏ	Ö	2	100	2	01	2	2	10	100	01
	S	9.	.5	.5	.2	:				.3	0				-	*	1.1	4.	4.	0.0	0.	0:	0.0	0:		0.0	0.0	•	0:0	00	0.	0.0
	Al	8 8	84	3	8	8	0	8	96	90	91	91	26	6	96	0	96	66	66	100	100	0	100	9	0	9	100	2	2	100	01	100
	9	0 1		5	2	-	-		.3		0	9		6	7.	4		4	4	0	0	0	0	0	0	0	0	0	0	· ·	0	0.
	AI	82.6	84	48	83	87	83	87	06	06	16	16	26	6	96	16	96	66	66	00	00	00	00	00	00	00	00	00	00	00	00	00
		0 =	-		-		-	-	-	4	3		1					0		-		-		6						6		
	2	72	74.	4	15	77.	77.	78.	5	79.	19.	80	30	0	31	50	33	8	60	63	33	63	3	83	33	83	30	63	179	33	600	83
		-	-	-	-	•	-		-	-	-		-	_	-	_	-	_	-	-	-	_	-	_	-	_	-		-			
S	E	CEILING 20000	000	16000	000	12000	000	0006	000	2000	000	2000	200	4000	200	3000	200	2000	80	1500	200	900	8	8	8	8	200	8	38	8	8	•
CEILING	F.	8 V	V 16	1 1		1 1		Al		IAI	1	I AI		IVI	1	IVI		IAI		٨١		1 /1	Al	Al	A	IAI	A	AI	A	IAI	AI	Al
		Z																_	_				_									_

TOTAL NUMBER OF OBSERVATIONS

SOWS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 HOURS (LS.T.) NAC

2000

0

0

155

TOTAL NUMBER OF OBSERVATIONS

-

0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

JAN.

= 0

13 HOURS (1.5.7.)

0		0	5	703	0	CEI	LIN	NG '	VEF	RSU	IS V	ısı	BIL	IT	Υ .	JAI	N 78			)			)									)	
	0 11	71.6	76.1	76.1	76.1	77.4	19.4	80.0	80.0	82.6	82.6	82.6	83.9		87.7		1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		00.00
	7 1		76.1	76.1	76.1	77.4	79.4	80.0		82.6	82.6	82.6	•	83.9	-		98.1	100001	10000	00.00	0	00.001	100.001	0000	100.00	0000	0000	00.00	10000	0000	00.00	0	0.00
	91/5 ≥		76.1	76.1	76.1	77.4	79.4	80.0	0	82.6	82.6	82.6	3	83.9	-	2.46		100.0	100.01	•	100.0	100.0	100.00	100.0	100.00		100.00	100.0	10000	100.0	0		0.001
	% AI	11.6	76.1	76.1	76.1	77.4	79.4	80.0	80.0	82.6		82.6		83.9	1:		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	0.001	100.0	100.0	0	00	0.001
	* AI	•	76.1	76.1	76.1	77.4	79.4	80.0	0	•	82.6	82.6	3	83.9		2.46	98.1	10000	100.0	100.0		10000		10000	100.0	10000	100.0	100.0	100.0	100.0		0	0.001
	% AI	71.	76.1	76.1	76.1	77.4	79.4	80.	80.	2		_	83.		1:	. 4	•	100.0		-	100	100.0	100.0	100.0	100	100.0	100.0	100.0	100.0	-	100	0	100.0
LES)	Ä.	71.	76.1	76.1		77.4	79.4	80.0	80.	82.	80	90	83.	83.9	7.	2.46		10000	100.0	100	-	100.0	100.	100.0	100	100.0	-	100	100.0	100.0	100	00	1000
VISIBILITY (STATUTE MILES)	YI X	-	76.1	76.1	76.1	-	79.4	0	80.	82.	00	82.	83.	83.9	00	0		-	_	100	100	100.0	d	100	-	100	2	100	100.0	001	2	000	0.001
ISIBILITY (S	YI %	71.6	76.1	76.1	76.1	77.4	79.	80.0	80.0				83.	83.		. 76	98.	100.0	100	100.	100.	100.0	100.	100.	9	100.	-	100.0	100.0	100	100.	100	100.0
>	Al	-	76.	76.1		77.4	79.	80.	80.	82.	00	82.	83.	83.	87.	3.56		10000	10000	10	100.	10000	10	100	100	100	-	0	100	100	2	001	0.001
	۲ 2%	-	6.	16.		17.4	79.4	80.	2	_	82.	_	63.	90	1 87.7		98.1	1000.0	0.0010	1000.0	100.0	0.0010	100.0	100.	2	1000.0	100	100.0	100.0	100.	100	100	1000
	ε Al	5 71.6	76.	1 76.		4 77.4	4 79.4		0.08	82.6	8 82.6	•	3	83.9			98.1	0.0010	0.0010	1000.0		0.0010			0.0010		0		100.0	0.0010	100.	00	100.0
	AI	6 71.	1 76.	7	-	3	+	0 80.					0	9 83.	7		1 98.	0100	-	-	-	0100.0	0100.	0100.0	-	0100.0	-	0100.	0100	-	100	0.000	001
	AI		1 76.	-	1 76.	77.	79.	-	-	6 82.6	-	6 82.	83.	9 83.	7 87.	94.	1 98.	0010	0	0	0010	0	100	.00100	-	2100	0100.0	0010	0.0010	0100	0010	-	0010
	٨١	0 71.	1	_	5 76.	_		80.	80.	7 82.	82.	7 82.	~	8	2 87.	. 76		100.	-0019	6100.	100.	100.	-	100	6100.0	6100.	100	6100.	.0019	100.	100.	100	0010
	۸I 2	c 71.	7	-	_	7		-	-	80.		80.	81.			00		0	-	93.	93.	66	93.	63	0	93.	66		93.			6.0	1
CEILING	(FEET)	NO CEILING	1 20000		≥ 16000		> 12000	1	00 AI	1	≥ 7000	0009		× 4500	× 4000	> 3500	3000	≥ 2500	₹ 2000		> 1500	> 1200	V 100		08 AI		% ^I		٧ 400	300	70	8	1

TOTAL NUMBER OF OBSERVATIONS

155

SMOS DIRNAVOCEANMET

0 0 0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NA P

16 HOURS (1 S.T.)

CEILING							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2	N N	S) Al	4	e Al	≥ 2%	7	۲۱ ۲۲	۷۱ ۱۳	Ā	X Al	* Al	N N	≥ 5/16	VI 74	O Al
NO CEILING	74.8	7	76.1		76.1		0	76.1	76.1			76.	76.	16.	76.	76.1
≥ 20000		6	83.9	83.9	83.9	83.9		83.9	83.9	83.9	3	83.9	_	00	83.	83.9
	:	6.		83.9	83.9	83.9		3.	3	3.	-	83.	83.	83.	83.	83.9
14000	81.9	83.9	83.9	83.9	83.9		83.9	83.9	83.9	83.9	83.9		83.9	83.	83.9	83.9
	2	2	85.2	85.2	85.2	85.2	5			5	5	85.2	3	85.	85.	85.2
7 12000		-	87.1	87.1	87.1	87.1	87.1	87.1	87.1	-		87.1	1 87.1	87.1	0	87.1
1		7	87.1	87.1	87.1	87.1			-	-	-	-	87.1	-	87.	87.1
000		-	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	-		87.1		87.1	87.1
	87.1		90.3	90.3	90.3	0			90.3	ò		.06	.06	-06	-06	90.3
7000	87.1	0	91.0	91.0	0.16	91.0	91.0	91.0	-	91.0	91.0			91.		91.0
		0		-	-			-	-	-	91.	0		.16	91.	91.6
2000			92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3		8 92.3	9 92.3	\$2.	92.3	92.3
		.0		3.		92.3	3.	2	2	2	.26	4	2	92.	92.	
1 4000	89.7		95.5	98.5		95.5	95.5		95.5	95.5	95.5	0	\$ 95.5	1 95.5		95.5
		8	97.4	1.	4.10		-	-		7.		0		-	97.	
3000		-	98.7			98.7	98.7	98.7	*	98.7		1 98.7	1 98.7	1 98.7	_	98.7
		3.	100.0	100.001	100.001	100.001	100.0	0.001	0.001	100.0	100.0	0.0010	100	0.0010	100.0	0.001
7000		4	100.0			100.001	0	100.0	0		100.0	100.0	0	100	100	10000
1		*	100.0	100.0	100.001	0.001	100.0	100.0	100.0	10000	100.0	100.0	10000	10000	0.001	10000
1500		*		100.00	100.001	100.00	0	100.00	0	100.0	100.0	100.0	0	100	100	100.0
1		4				100.0	0		0	0	100	100.0	0.0010	100	100	100.0
1000	94.2	*	100.0	100.00		100.00	0	100.0	100.00	100.0	100	-		100.0	-	1000
		4.	0.001	1.00.0	10000	0.001	100.00	100.0	100.0	10000	-	-1		100	-1	100.0
008		4.		0	100.00	100.0	100.0		0.001	1000	100	-	1000.0	0.0010	100	100.0
		4.	100.0		100.00		100.0	0.001	100.0	10000	100.0	-	0.0010	100	-	00001
9		\$		100.00	100.001	100.00	100.0		0.001	100.0		4	100.0	-	100	1000
		4.	100.0	0	100.001	0.001	100.0	100.0	0.001	0000	100.0	-	100	00	100	0.001
1400		4.		10000	100.001	10000	100.0	0.001	100.0	100.0	•	4	100.0	0100	100.0	0.001
	2.46	4.	0.001	0.001	100.00	100.0	100.0	0.001	0.001	0.001	•	0.0010	10000	2	100.0	10000
1 200		*	•	100.00	100.001	100.00	10001	100.0	100.0	100.0	100.0	1000	1000	100.0	10000	1000
	2.46	4.66	100.0	0.00.	100.00	0.00	0.001	0.001	0.001	0000	1001	1000	1000	0.0010	10000	100.0
٥		4.	100.0	10001	100001	100.0	100.0	0.001	0000	10000	100.0	100.0	1000	10000	1000	100.0

0

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TOTAL NUMBER OF OBSERVATIONS

155

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DIRNAVOCEANMET SMOS

04.0

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE

19 HOURS (1.5.T.) JAN

9000

		4 1	9	90	NE		00	0.0	00 cc	- 4	* 0	00	00	00	00	00	00
	AI	77	8 8	83	83	89		16	76		66	000	000	000	000	000	88
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	VI 74	77	00 00	83	83	88	61.	16		98		00	000	000	000	000	000
	•	4 W	-	m 0	200	-	00	0.0	-	+	-	-	00	00	00	-	00
	2 5/16	77.	8 2	200	83.				76		66	000	000	000	000		
		40	-	ma	NIN	20	-	-	-	-	-	-	-		000	-	00
	N N				6 4	6			4 0	98	66	000	000	00	00	00	00
	-	40	8 8	8 8	200	20	66	-	-	-	-	-	010	010	010	010	010
	*				m 4	6 0			* 0	00	00	00	000	00	00	00	00
		4 60	60 E	20 00	200	80	-	-	000	-	-	-	-	010	010	-	010
	% Al	7.			6 4	0 0			3 4	000	0.0			00	00	00	000
		- 80	ec ec	00 00	00 00	-	-	00	-	-	60	-	44	000	00	22	00
	-	4.6			6 4	6 0	000				4.0	000	0.0	0.0	0.0		0.0
(Sa)		1- 00	00 00	00 00	<b>80 80</b>	00 0	00	-	00	00	00	20	00	00	00	00	00
VISIBILITY (STATUTE MILES)	7.	4.6			3.5	2.6	00	0.0	2 4				0.0	000			
TATU	AI .	- 00	œ æ	œ œ	æ æ	80	00	00					00	00	000	00	001
17 (5	72	2 10		40	40	1.10			00 00				00	000	000		00
II III	AI	7	00 00	0 8	80 80	800							000	000	000	100	000
2	~	4 10	9	90	250			00							00		00
	Al	7 6	8 2	8 2	8 40	800		00	20				00	000	00	000	00
	21/5	40	w w	m ~	250	r. w		00	on on	-14	40		00	00	00	00	00
	Al	7 8	8 2	3 3	8 8	000		65		99		000	000	000	00	800	000
	6	40	w w	w .	25	- 10	00			4	40	00	00	00	00	00	00
	ΛI	77	S 20	8 8	8 3	69		16	96		66	000	000	000	000	000	000
	-	4 10	m m	9	Ne	-	cc		Ø 00		40	00	00	00	00	00	00
	Al	1 8	8 8	83	80 00 10 4	68	-	-	4 4				000	000	000	00	000
	_	4 1	mm	2	NI		00	00	00 00		40	-	-	00	00	00	00
	VI V	77	81.8	83	84	68	16	91	96	86	66	100	100	100	100	100	00
		00 P		-0	00	10	00	00	N -	4 -		22	24	77	22	22	22
	AI	9.0	000	80.	2 8	6 8	90	90.	. 40	97	98	98	98	98	98	98	98
			00	-	-	_		-						00			
	N N	00	00	00	00		00	00	10.3	===		-		1:	11.0		
-		U	-	-	-	-	-					-	-				
CEILING	£	O CEILING	18000	14000	900	800	9000	450	3500	2500	1500	1200	88	88	88	98	80
CEN	E	NO CEILING	MAI	MAI	MM	AIAI	1	1	ALAI	1	1	1	ALAL	ALAL	ALAI	ALAI	MAI
		12_						1		1		L					لـــا

0

TOTAL NUMBER OF OBSERVATIONS

0110

SMOS DIRNAVOCEANMET

1500

AI AI

2000

ALAI

88

AI AI

1200

AI AI

88

ALAI

88

AI AI

80

ALAI

88

AIAI

100.010

0

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

22 HOURS (1 S.T.) NAL

PERCENTAGE FREQUENCY OF OCCURRENCE

																	evice.				1.11					
1.8.1.		٨١	89.7	91.0	91.0	-	91.0	91.6	91.6	11641	93.6					8.46	95.5	1.96	4.66	0000	0000	0000	8		0.001	4
HOURS (L S.T.)		AI 2	6	:	91.0	91.0	91.0	91.6	9106	9106	93.6	93.6	93.6	2.46	94.2	8.46	65.5	96.1	4.66	00.00	00		10.00	0.00	0.00	4
		≥ 5/16	89.7	21.0	-	-	91.0	-	91.6							8.46		96.1	66	00	00	0000	0000		0000	
		Z Al	89.7	-	-	-	-	-	-	1.6	3.6	9.	9.		.2		S	-:	4	8	00	00.00	00.00	00.00	00.00	ĸ.
		*	89.7		0116	0.16	0116	91.6	9116	9116	93.6	9.	9.	.2	.5	-			3.	10.00	10.00	10.00	10.00		0000	
		% Al	89.7	0.16	0.16	0	0	9.	0	9	0	9.	9.	2.	2	8.46	.5	7	4.66	00.00	10.00	00.00	10.00	0	00.00	•
	S	<u></u>	2.6	1.0	1.0	1.0	1.0	1.6	1.6	1.6	3.6	3.6	3.6	4.2	1	8.46				4	0.	-	0	0	100.001	-
OBSERVATIONS	(STATUTE MILES	¥1 ¥	89.7	-	1.0	0	0.	9.	9.	9.	9.	9.	9.	~	2.		'n	-		0	0	00.00	0	0	10.00	•
SERVA	VISIBILITY (STA	۷۱ ۱۷	4.68		0116	•				91.6						8.46	69.5	1.96				10.00			00.00	
LY OB	VISI	AI	89.7	•,	•	0.	0.	9.		9.	9	9.	0	~	2		_	7.	4.66	00.00	0000	0	0	and.	00.00	-
FROM HOURLY		≥ 2%		0	0	0	0.	9.	9.	9.	9.	9.	9.	~	~	94.8	s.	96.1	4.66	10.00	00.00	=	0		100001	
FROM		e Al	89.7	016	-	91.0	-	-	-	91.6	93.6	93.6	93.6	34.5	34.5	8.46	95.5	96.1	4.66		0	100.001		0	100.001	-
0		4	1.68	-1	0.16	016	0.16	91.6	91.6	91.6	93.6	93.6	93.6	2.46	2.46	8.46	95.5	1.96	4.66	0	0.	00.00	0.	0.	0.00	4
+		<b>S</b> 2	89.7	4	:	-	1.	-	-	-			**	+			2	•		ò	0	ò	0	ò		4
		۸I	89.7															•							100.0	
		5		•																				5.8		

12000

VI VI 00091 0000

(FEET)

NO CEILING

₹ 20000

2000

ALAI

2000

ALAI

4500

ALAI

3000

ALAI

TOTAL NUMBER OF OBSERVATIONS

3111

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2

		_	_	_	_	_	_	_	_			_	-	_	_	_	_			125	_		_	-	_	_	-				-	_	_
	٨١	81.5	84.4	84.4	84.4	84.9	86.5	86.5	86.9	89.9	90.1	9006	91.3	-	92.9	96.0	97.6	6	99.7		6.66	6.66	0000	0000	0000	0000	0000		000	0000	0000	0000	00.00
	VI VI	-	84.4		84.4	*	86.5														6.66	•		0000		0		0	0			00.00	0000
	≥ 5/16		84.4		*	*	.5		6.9	6.6	1.0	9.0	1.3	1.5	5.9	0	7.6	0	4.6	2.4	6.6	6.6	10.0	10.0	00.00	0			0	0	10.00		00.00
	2 11	81.5	84.4																		6.66				10.00						0	0	00.00
	*	81.5	*		84.4	;	86.5	86.5											•		6.66	•-	•	10.00			00.00			•	00.00		00.00
	% AI	81.5	+		*			•	•	6	0	ò	:	-	2	.0	2	6	6	6	6.66	6			ò	0	00.00	0	0	•	0	ò	00.00
ES)	<u></u>	-	84.4	3	84.4	84.9				6	.0	ò	-	-	i		-		6	6	6.66	6	0	•	ò	ċ	•				ċ	0000	2427
(STATUTE MILES)	71 71	-	84.4		84.4	84.9															8.66				6	6	6	6	6	66.66	•	66.66	
VISIBILITY (ST.	۷۱ ۶۲	81.5		+	84.4	3	86.8	86.5	. 9	6	0	0	-	-	2.	0.96	-	6	6	•		8.66	6			6		6	6			6.66	6
VISI	7	-		4	84.4	3	86.5			6	0	0	-	-	3	0.96	-	6	6	6	8.66	8.66	6	6.66			.6	.6	6		•	6.66	
	> 2%	81.5	*	*	84.4	*	.0	9	. 9	.6	0	0	-	-	2	0.96	-	6	.6	6	8.66	.6	6	•	6	.6	6	6	6	•	6	6.66	6
	e Al	-	84.4	84.4	84.4	84.9	86.5			6.68						0.96			9.66		8.66	•	•		6.66					6.66		6.66	
	4		84.4				86.5									0.96					8.66											6.66	
	S) Al	-	*	*	84.4	*	.9	•	.9		0	0	-		·		7.		6	6	8.66		6	6	6	6	6	6	6	.6	6		6
	۰ ۸۱	-	;		*		86.4			89.8						95.8				-	9.66				90.66		-		90.66	9.66	6		90.66
	2		41.4	-	41.4		42.7	42.7	43.0		44.2		44.4	44.6		47.2	48.3		48.9		48.9	48.9		48.9		*		•	48.9	8	48.9	48.9	00
CEILING	(FEET)		× 20000		≥ 16000		× 12000	1	0006 ~1		> 7000		2000		141	1	3000		≥ 2000		≥ 1500		× 1000	000	> 800 > 1	92 41	009	200	V 400		> 200	81	-

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

O.1 HOURS (LS.T.) FE B

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CEILING (FEET)							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	.ES)						
	ار ا	٨١	41	4	M Al	1 2%	AI	71 71	VI 7.	<u>~</u>	% AI	*	VI Z	2 5/16	VI N	٨١
NO CEILING	5.0	90.1	60.1	90.1	90.1	90.1	1.06	90.1	90.1	90.1	1.06	1.06	90.1	1.06	90.1	90.
× 20000	5.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	06
	5.0	90.1	90.1	1.06	1.06	1.06	90.1	90.1	90.1	90.1	90.1	1.06	90.1	90.1	90.1	.06
16000	5.0	90.1	90.1	90.1	90.1	90.1	90.1	1.06	90.1	90.1	90.1	90.1	90.1	90.1	1.06	90
	5.0	1.06	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	1.06	90.1		90.1	1006	.06
> 12000	5.0	8.06	90.8	8.06	8.06	90.8	90.6	90.8	9006	8.06	8.06	8.06	90.8	8.06	8006	90.
	5.0	90	8.06	90.8	8.06	8.06	8.06	8.06	8.06	8.06	8.06	8.06		8006	8.06	90.
000	5.0	8.06	8.06	8.06	8006	8.06	90.8	8.06	8.06	90.8	8.06	8.06	8.06	8.06	90.8	90.
	5.0		93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
1 7000	5.0	96	94.3	94.3	6.46	6.46	94.3	84.3	94.3	94.3	64.3	64.3	94.3	94.3	84.3	94.3
1	5.0	94.	6.46	6.96	6.46	6.46	64.3	6.46	84.3	94.3	64.3	84.3		6.46	64.3	94.
2000	5.0	94.		94.3	6.46	64.3	64.3	94.3	6.46	94.3	64.3	64.3	*	94.3	64.3	94.3
1	5.0	. 76		6.46	94.3	94.3	94.3	6.46	94.3	94.3	64.3	6.46	64.3	6.46	6.46	94.3
1 4 1	5.0	94.	64.3	94.3	94.3	94.3	6.76	64.3	94.3	94.3	64.3	64.3	94.3	64.3	94.3	94.3
1	5.0	95.	0.56	95.0	95.0	95.0		95.0	95.0	95.0	0.56	95.0	95.0	95.0	95.0	95.0
3000	5.0			97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
	5.0	66	66.3	6.66	66.3	86.3	66.3	86.8	66.66	99.3	66.3		•.	86.3	66.3	99.3
7 2000	5.7	100.	100.001	0000	100.0	100.0	100.001	100.00	100.00	0.001	100.0	100.0	100.0	100.0	0.001	000
1	5.7	100.00	100.001	0.001	100.0		0.001	0.001	0.001	100.0			0	•		0001
≥ 1500		10000	100001	0.001	100.001	100.0	100.001	100.00	100.0	10000	100.0		100.0	100.0	100.00	0001
	5.7	100.001	100.001	0.001	100.0	.00	100.00	.00	0.001	10000	•	10000	0		0.001	0001
V 1000		100.001	100.001	0000	100.001	-	100.00	0.00	0.001	0						00.00
0% 1	5.7	100.00	100001	0.001	100.0	00	10001	0	0.001	ò	100			001		000
		100.00	100.001	100.0	100.0		100.00	100.00	0.001	100.0	100		•	-		000
	5.7	100.001	•	0.001	100.0	0	100.0	0000	0.001	.0			0		0.001	0001
00		100.00	100.001	0.001	100.0	100.0	100.00	100.00	0.001	100.0	100.0	10000	100.0	10000	0.001	0001
200	5.7	100.001	100001	0.001	100.0	100.0	1.00.0	0.001	0.001	0.001			0	100.0	0.001	1000
> 400	5.7		100.001	100.0	100.0	100.0	100.00	100.0	0.001	100.0			0			000
300	5.7	0	•	0.001	•	0.001	0.001	0.001	0.001	0.001	100.0		0.00	•	0.00	000
	20.1	0.001		0000	0.001	0.00	0.001	00.00	0000	0000	0.001	•	200	•	0000	000
8 2		00	0000	000	0.00	000	0000	000	000	000	000	000	000	000	000	000
1	à	5	•	2		3	2000		2			•		•		

0

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TOTAL NUMBER OF OBSERVATIONS

141

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FEB

1400

0

104 HOURS (1.S.T.)

CEILING							VIS	IBILITY (S)	VISIBILITY (STATUTE MILES)	.ES)						
(FEET)	5 4	٨١	\$ Al	4	N AI	2 2%	14.2	2 1%	71 71	ĀI	* *	*	× AI	≥ 5/16	VI VI	0 11
NO CEILING	3.0	7.9	87.9	87.9	-	-	87.9	-	87.9	87.9	-	87.9	87.9			87.9
≥ 20000	5.0	4.6	4.68	4.68	89.4	4.68	89.4	89.4	89.		89.4	89.4	4.68	89.4	89.4	89.4
	5.0	4.6	4.68			6		6	89.	6			4.68	6	6	89.4
N 16000	5.0	4.6	89.4	89.4	89.4	89.4		89.4	89.4	89.4	00		89.4	89.4	89.4	89.4
> 14000	5.0	4.6			89.4	•	89.4		89.		89.	00	6	6	89.4	89.4
> 12000	5.0	90.1	90.1		90.1			90.1	90.1	90.1		90.1	90.1		1.06	1.06
	5.0	8.0		0	0	8.06	0	0	.06	ċ	.06	.06		0	8.06	90.8
0006	5.0	1.5	91.5	91.5	91.5		91.5	91.5		91.5		0	91.5	91.5		
1	5.0	4.3		*	5	94.3		*	. 76		. 76	6	;	3	6.46	6.46
1 7000	5.0			6.46	64.3	. 4		;	3	94.3	94.	. 76		*	94.3	94.3
1	5.0	.3		*	*	94.3	. 4	*	. 76		. 76	94.	6.46	*	94.3	94.3
0005	3.0	0	95.0	95.0		95.0		95.0	9	5	0	-		95.0	95.0	95.0
	5.0	0		5	3	95.0	30	95.0	95.	3	95.	95.	3	2	95.0	95.0
141	5.0	0	95.0	95.0	93.0	5	95.0	95.0	_	3	95.0	95.		3	5	95.0
	5.0	1.			3			95.7	95.	5	0			5	95.7	95.7
3000	3.0								98.	*	0	98.		8	98.6	
	2.0	0		100.0	100.0	0.001		100.0	100	100.0	100.0	100.0	0.001	100.0	10000	0.00
7 2000	5.0	0.	100.001	100.0	100.0		100.001	100.0	-	0	-		0	0	10000	0000
	5.0	0		100.0	100.0			100.0	100	100.0	100	100	100.0	0	0	0000
≥ 1500	5.0	0	100.001				100.001	0	-	0	-	100	0	0	00.00	0000
	5.0	0.		100.0	100.0	0			100	100.0	100	10000	100.0	100.00	10000	0000
≥ 1000	5.0	0		100.0	100.00	100.00			-		100	100	0			0000
98 AI	5.0	0		100.0		0			100	0	100	2	0	100.00	00.00	0000
	5.0	0	•	100.00	100.0	0		0	100	0	100	100	0		0	00.00
700	5.0	0		0.001	100.0	0	100.00		0	0	100	0	0	0		
009	5.0	0		100.0	100.0	100.001	100.001		100.0	100.0	=	100	0	•	00.00	0000
> 500	5.0	0	•	100.0	0.001	100.0	100.001	100.0	100.0	100.0	-	2	0	100.001	00.00	0000
1 400	5.0	0		0.00	100.0	100.00			100.0	100.0	2	0	0	•	00.00	0000
	5.0	0	100.0	10001	100.0	10000	100.001	100.0	100.0	100.0	100.0	1000	0.001		00.00	0.00
× 200	5.0	100.00	100.0	100.0	100.0	100.0	100.00	100.0	100.0	100.0	100.0	100.0	100.0	100.00	00.00	0000
91	0	0.00	100.001	10000	100.0	100.0	100.0	0.001	0.001	100.0	100.0	100.0	100.0	10000	0000	0000
٨١	0	0		10000	100.00	10000	100.00	100.0	100.0	0	4	100.0	100.0	100.001	100001	00.00

0 0 0 0

TOTAL NUMBER OF OBSERVATIONS

1

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

HOURS (L S.T.) FEB MONTH 07

8

89.4 96.5 8006 8.06 84.4 85.8 85.8 92.9 86.5 8.06 0.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 85.1 85. ٨١ 89.4 84.4 84.4 8006 6.26 84.4 96.5 84.4 99.3 99.3 99.3 99.3 99.3 86.5 90.8 8.06 ۸۱ 84.4 86.5 8.06 89.4 8.06 84.4 84.4 85.8 85.8 89.4 89.4 90.8 90.8 92.9 92.9 96.5 96.5 96.5 96.5 85.1 2 5/16 8.06 86.5 8.06 84.4 ٨I 84.4 4.68 8.06 84.4 8.06 86.5 4.48 85.8 65.6 89.4 8.06 85.1 \* 65.6 8.06 89.4 8.06 82.3 85.8 8.06 86.5 89.4 % Al 92.9 92.9 92.9 92.9 85.8 85.8 8.06 90.8 90.8 90.8 90.8 8.06 99.3 99.3 99.3 99.3 84.4 84.4 84.4 84.4 84.4 85.1 86.5 89.4 90.4 84.4 84.4 84.4 ۸۱ VISIBILITY (STATUTE MILES) 84.4 8.06 84.4 4.68 8.06 85.1 86.5 86.5 89.4 89.4 7 7 4.48 85.1 89.4 90.8 85.8 85.8 84.4 84.4 84.4 90.8 90.8 ۷۱ ۲ 89.4 84.4 34.4 85.1 89.4 8.06 N Al 89.4 34.4 90.8 90.8 84.4 85.8 85.8 92.9 98.6 99.3 99.3 86.5 95.7 7 2% 66.3 66.3 66.3 66.3 92.9 86.5 89.4 9.86 82.3 84.4 4.68 8.06 8.06 8.06 66.3 99.3 66.3 66.3 66.3 66.3 66.3 84.4 4.48 85.1 99.3 66.3 ٨١ 84.4 84.4 85.8 90.8 8.06 66.3 66.3 84.4 4.68 89.4 6.26 66.3 66.3 66.3 8.06 95.7 98.6 66.3 66.3 99.3 6.06 66.3 66.3 66.3 86.5 85.1 ۸۱ 66.3 66.3 84.4 8.06 66.3 66.3 84.4 86.5 8.06 65.6 95.7 98.0 66.3 66.3 66.66 66.3 84.4 89.4 85.8 89.4 8.06 66.3 66.3 82.3 83.7 84.4 85.1 د ۱۸ 98.6 98.6 0.86 98.6 98.6 98.6 84.4 98.6 9.86 98.6 9.86 85.8 88.7 97.9 98.9 98.8 98.6 98.8 81.6 98.6 98.6 83.7 85.1 90.1 92.2 83.7 88.7 90.1 90.1 1 78.0 76.0 78.0 78.0 77.3 78.0 78.0 78.0 78.0 0.99 0.99 67.4 71.6 78.0 78.0 1.90 10.9 11.6 75.5 78.0 78.0 18.0 0.87 78.0 78.0 68.1 0 73.1 71.6 NO CEILING 80 (FEET) ≥ 20000 VI VI 00081 14000 Y 14000 9000 4500 3000 2000 1200 88 8 8 1500 88 88 8000 7000 9000 AI AI AI AI AI AI ALAI ALAI ALAI AI AI

TOTAL NUMBER OF OBSERVATIONS

141

3

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

10

98.6 90.1 100.010 00.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 100.010 00.001000.001000.001000.00100.00100.00100.00100.00100.00100.00100.00100.00100.00100.0 100.010 0.00100.0100 0.0010.0010.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 85.1 88.7 ٥ ٨ 87.2 0.56 98.6 99.3 5116 85.1 85.1 1.06 85.1 87.9 1.06 90.1 87.9 88.7 88.7 ٨١ 98.6 85.1 87.2 91.5 95.0 87.9 87.9 99.3 88.7 1006 85.1 85.1 88.7 90.1 85.1 90.1 2 5/16 95.0 98.6 85.1 1.06 91.5 85.1 87.2 87.9 87.9 88.7 88.7 90.1 85.1 85.1 1.06 2 ۸۱ 87.9 95.0 98.6 87.2 66.3 85.1 87.9 90.1 85.1 88.7 88.7 1.06 91.5 85.1 85.1 90.1 Al 98.6 91.5 66.3 87.2 87.9 85.1 87.9 1.06 85.1 1.06 85.1 88.7 88.7 1.06 ٨١ 98.6 66.3 85.1 91.5 85.1 90.1 95.0 85.1 88.7 90.1 1.06 88.7 AI VISIBILITY (STATUTE MILES) 95.0 91.5 85.1 87.9 90.1 1.06 87.9 99.3 99.3 85.1 88.7 88.7 90.1 98.6 98.6 ٨١ 91.5 95.0 87.9 88.7 85.1 87.2 1.06 90.1 85.1 85.1 87.9 88.7 90.1 ٨١ 88.7 87.9 87.9 90.1 91.5 98.8 85.1 85.1 90.1 99.3 99.3 85.1 90.1 95.0 87.2 88.7 85.1 W VI 0.66 98.6 85.1 88.1 87.2 1.06 1.06 91.5 87.9 88.7 90.1 88.7 AI 98.6 66.3 87.9 90.1 91.5 85.1 85.1 85.1 87.2 87.9 1.06 95.0 88.7 90.1 88.7 ۸I 91.5 83.7100.0100.0100.01 87.2 87.9 95.0 85.1 85.1 90.1 98.6 98.6 99.3 99.3 85.1 85.1 88.7 90.1 88.7 1.06 1.06 ٨١ 91.5 0.56 85.1 65.1 87.2 90.1 90.1 85.1 87.9 88.7 88.7 VI VI 87.2 98.6 66.3 85.1 85.1 91.5 87.9 1.06 85.1 88.7 88.7 90.1 95.0 90.1 ٨١ 76.6 83.0 83.71 74.5 9.1 1.0 74.5 75.9 83.0 83.7 83.7 71.6 75.2 75.9 83.7 78.2 13.9 80.1 83.7 83.7 83.7 83.7 NO CEILING 80 × 20000 18000 (FEET) V IV 000 000 000 4500 3500 2000 88 2000 9000 1500 900 88 88 88 AI AI AI AI AIA ALAI AI AI ALAI AI AI ALAI AI AI AI AI AI AI AI AI AI AI

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET

(2)

SOWS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 HOURS (LS.T.) FEB

=

							VISI	BILITY (ST.	VISIBILITY (STATUTE MILES)	[5]						
(FEET)	2	o Al	so Al	4	e Al	Y 2%	7	VI Ž	YI 71	-	% Al	*	N %	≥ 5/16	N N	O AI
NO CEILING			75.2	75.2	75.2	75.2		75.2		75.2		75.2	75.2	75.2	75.2	75.2
> 20000		00	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
				78.7		78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
N 16000		8.7	-	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
			-	78.7	78.7			78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
2 12000	75.2	9.	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
				82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
0006		4	-	84.4	84.4	84.4		84.4		84.4	84.4		84.4		84.4	84.4
1			-	85.8	85.8	85.8		85.8		85.8	85.8	3.	3	85.8	85.8	85.8
1 7 7000	79.4	80	85.8	85.8		85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8		85.8	85.8
1		85.8		85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2000		86.5	-		86.5	86.5		86.5	;	86.5	86.5	86.5	;	86.5	86.5	86.5
		87.2		87.2	87.2	87.2	87.2	87.2	-	87.2	87.2	87.2	87.2	87.2	87.2	87.2
1 41		89.4		4.68	89.4	4.68	89.4	\$9.4	•	89.4	89.4	89.4	4.68	4.68	89.4	89.4
1		91.5			-	-	91.5			91.5	•		-	91.5		91.5
3000		95.0		0.56	95.0	95.0	95.0	95.0	95.0	95.0	95.0	10	95.0	95.0	95.0	95.0
		99.3			66.3	66.3		66.3		69.3	99.3	86.3		6	66.66	66.3
7 2000	89.4	99.3	66.3	86.3	66.3	86.66		86.8	99.3	86.66		86.66	86.66		8.66	6.66
		8.66		8.66	66.3	66.3	6	66.3		66.3	66.3	66.3	66.3	6.3	66.3	66.3
1500		100.0		10000	100.001	100.00	100001	100.00	100.001	0.00	100.0	0	10000		10.00	0000
	89.4	100.0		0.00.		10000	100001	0	00.00	•	100.0	0		100001	10.00	0.00
2 1000		100.0	100.001	0000		100001	100.001		00.00			0	0.001		10.00	0000
		100.0	-	0.001	100001	10000	10.001	0	•	ċ	0		0.001	•	10.00	0000
008 AI		100.0		100.00	100.00	100.001	100001	00.00	100.001	00.00	100.0	0	00.00	100.001	10.00	0.00
		100.0	•	00.001	100.001	10.001	10.001	0.00	100.001	0.00	ċ	0	0.001	0	10.00	0000
8		100.0		100.00	100.001	100.001	100.001	0.001	00.001	0.00	100.0	100.00	100.001	100.001	10.00	0.00
		100.0		0.001	100.001	100.00	00.00	0.00	100.00	0.00	•		0.001	0	00.00	0000
140	89.4	100.0		100.00	100.001	100.00	100001	00.00	100001	•	•	0	100.001	0	00.00	0.00
		100.0	100001	0.001	0	10.001	10.001	0	•		0	0			•	0000
7 200	89.4	100.0		0.001	100.00	100.001	100.001	0.001	100.00	0.00	100.0	1000	100.00	10000	10.00	0000
VI 81	99.4	100.0	100001	0.001	0.001	0.00	10.001	0.00	10.001	0.00	100.0	100.0	0.00	10.00	10.00	0.00
	89.4	0	100.001	0.00	10000	0.00	0.00	0.00	00.00	0.00	100.0	100.0	0.00	100.00	10.00	0000

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET

0

# CEILING VERSUS VISIBILITY

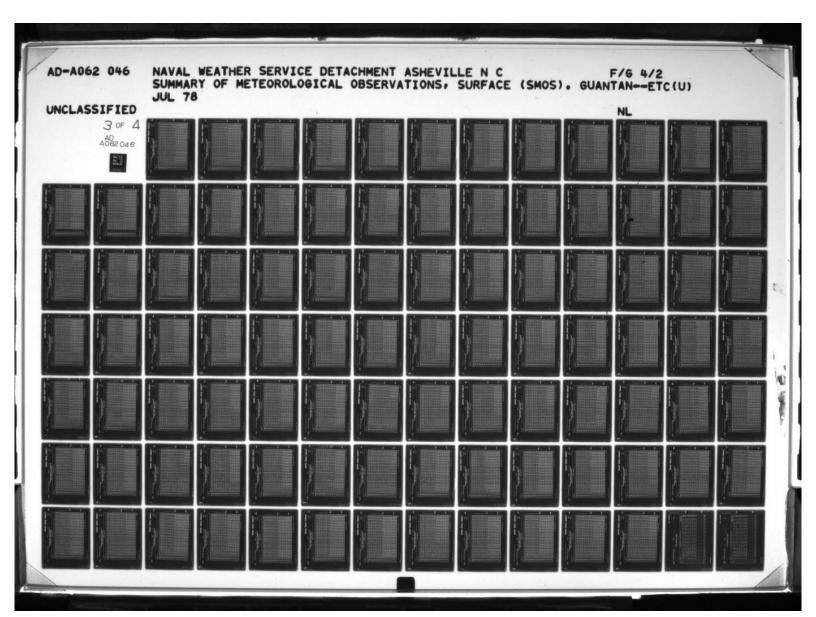
73-77	YEARS	PERCENTAGE FREQUENCY OF OCCURRENCE	(FROM HOURLY OBSERVATIONS)
CUBA	ON NAME	PERCENTAGE FREQ	(FROM HOUR
BAY,	STATE		
CANTANAMO BAY, CUBA			

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	5	9 11	50	4	N AI	≥ 2%	1 2	VI %1	VI 71	Ā	% AI	*	Z AI	≥ 5/16	VI NI	٨١
NO CEILING		20	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
> 20000		0	80.0	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	0	80.9	80.9	80.9
	73.8	0	80.9	80.9	80.9	80.9	80.9	80.9	0	80.9	80.9	80.9	6.08	80.9	80.9	80.9
N 16000		6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	•	0	80.9	0	80.9	80.9	80.9
		5	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
> 12000		0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0		83.0		83.0	83.0	83.0
1		0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
0006		4	4.48	84.4	84.4	84.40		84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
1		~	87.2	87.2	87.2	87.2	87.2	87.2	. •	87.2	87.2	87.2	-	-	87.2	87.2
7000	80.1	~	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
1		0	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9		87.9	87.9	87.9	87.9	87.9
2000	81.6	4	4.68	89.4	89.4	4.68	89.4	89.4	89.4	89.4	4.68	89.4		89.4	89.4	89.4
	81.6	3	4.68	89.4	4.68	89.4	4.68		89.4	89.4	89.4	89.4	4.68	89.4	89.4	89.4
1 4000		0	65.6	6.26	6.76	92.9	92.9	92.9	92.9	92.9	92.9	6.26	92.9	65.6	6.26	92.9
		C		0.56		95.0	95.0			95.0		95.0	95.0	5	95.0	95.0
3000		2	97.2	97.2	2.16	97.2	97.2	97.2	-			97.2	97.2	97.2	97.2	97.2
		3		10.00	0.00	100.001	0.001	0.00	100.0	100.0	100.0	0.001	0000	100.0	10.00	0000
7 2000	88.7	3		100.00	0.00	100.0	100.001	100.001	0	100.0	100.0	10000	100.0	100.00	10.00	0.00
		3	00.00	00.00	0.00	0.001	100.001	0.001	0.001	100.0	100.0	0.001	0.001	100.0	0000	0000
1500		2	00.00	00.00	0.001	100.0	100.001	100.00	100.0	10000	100.0	0.001	100.0	100.00	10.00	0.00
		3	00.00	0.00	0.00	0.001	100.001	100.00	100.0	10000	0.001	0.001	0.001	100.0	0000	0000
1000	86.7		00.00	00.00	100.00	10000	10000	100.001	100.0	100.0	100.0	100.0	100.0	100.0	10000	0000
		10		0.00	0.00	100.0	100.001	100.00	0.001	100.0	100.0	0.001	0	100.0	10000	0000
008	88.7		00.00	00.00	00.00	100.001	100.001	100.00	100.00	100.0	100.0	10000	0.001	100.00	10.00	0000
			00.00	0000	0.00	100.0	10000	0.001	0.001	100.0	100.0	100.0		100.0	0000	0000
8	88.7	2		00.00	0.00	100.0	100.001	100.00	100.0	10000	100.0	100.0	100.0	100.00	10.00	0000
	88.7	86.3	00.00	0.00	0.001	100.0	100.001	100.00	100.0	10000	100.0	100.0	•	0000	00.00	0000
141		3		10.00	0.001	100.0	10000	100.001	0.001	10000	100.0	0.001	100.0	100.0	10.001	0000
	88.7	e.	00.00	0.00	0.00	100.0	100.0	100.0	0.001	10000	100.0	100.0	0.001	100.0	0000	0000
141			00.00	100.00	0.001	100.0	100.0	100.00	100.00	10000	100.0	10000	100.0	100.0	100.00	00.00
	88.7	66.3	0000	0.00	0.001	100.0	0.001	100.0	100.0	100.0	100.0	0.001	0.001	100.0	00.00	0.00
o IAI	88.7		0000	0.00	0.00	10001	100.00	0.001	100.0	10000	100.0	10000	100.0	100.0	100.00	0000

0.000000000000

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

19 HOURS (1.5.T.) FEB

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	0 Al	78.0 78.0	0.18	0	0.1 8	1001 8001	1.68	11.6 81.6	36.5 86.5	0.1	7	90.1 90.1		0.1 9	11.5 91.5	4.3 9	6.5	6 9.8	9.	66.3 66.3	0	9	0		10.	0	000	0	10.0	0.0010.00	0.0010.00	0.0010.00
	≥ 5/16	78.0	80.1	1 80.1 8	80.1		1.6	81.6	86.5	1.0	0.1	6 1.06 1	1.0	.06	5 91.5		96.5	98.6	8.6	66.3	100001	-	100001	0100.0010	100001	0.	10000	0.0	100.00	100001	0100-010	100.0010
	N %	78.	80.		0	80.	81.6	81.6		.06		90.			-		•	8	. 86	66	100	100	100	100	100	100	100	100	100	001	001	001
	*		0		80.1			81.6	86.5	90.1	90.1	90.1	90.1	90.1	91.5	6.46	96.5	98.6		66	-	100.0	100	-	100	-	100	01	100	0		100
	X Al	78.0	0	80.1	80.1	80.1	81.6	-	86.5	90.1		90.1	90.1	1.06			96.5	98.6	98.6	99.3		•	100.0	•	100.0		100.0	•.	•	100.0	000	100.0
.ES)	- AI	8	80.1		80.1	80.1	81.6	81.6	86.5	90.1			90.1		91.5		96.5		98.6	6	100.0	0000	.0	00001	0	0.001	0	100.0	1000		0.001	1000
ATUTE MII	71 71	78.0	80.1	80.1		80.1	81.6		86.5		90.1	0		0	91.5	*	96.5		98.6		0000		0000		0.001	0.001	0.001	0.001	0.001	0.001	000	0.001
VISIBILITY (STATUTE MILES)	۲۱ ×۱	8		80.1		80.1	81.6	-:	86.5	90.1		1.06		1.06	•			8	98.6	6	0	0.001		0	0.001	0	0			•	100.0	
VIS	7	•.	80.1	80.1	80.1	80.1	81.6	81.6	86.5	90.1	90.1		90.1		91.5		96.5		8	6	0.00	0.001		0.001	0.001	0.001	0.001	0.001	10000	0.001	0.001	0.001
	1 2%			80.1	80.1	80.1	81.6	81.6	86.5	90.1	90.1	1.06		1.06	91.5	94.3	96.5		98.6	66.3	100.0	0.001		0000		0	0.001	0.001		0.001	0000	0000
	es Al		80.1	80.1	80.1	80.1	81.6	81.6	86.5	90.1	90.1	90.1		90.1		64.3	96.5	98.6	8	66.3	0.001	0.001		0.001	0.001	0.001	0.001	0.001	•	0.001	0000	0.00
	4	8		80.1		80.1	81.6	81.6	86.5	90.1	90.1	1.06	90.1	90.1	91.5	*		98.6		66.3	0	0.00	0.001	0.001	0	0.00	100.00	0		0.001	0000	0.001
	8		80.1		80.1	80.1	81.6		86.5	1.06	90.1	1.06	90.1		91.5		96.5		98.6						100.00			0.001		0.001	•	10000
	۰ ۸۱	77.3	19.4	4.61			80.9	80.9		89.4	89.4	4.68			8.06		95.7		61.6		-		-	-	99.3		99.3			99.3	39.5	66.3
	5 VI	9.0	*	11.4	1.4	11.4	1.4	4.	1.4	4.	4.	4.	1.4	4.	*	5.	4.	11.4	-	11.4	11.4	-	11.4	11.4	11.4	11.4	11.4	1.	11.4	-	17.4	11.4
CEILING	(FEET)		N 20000		00091 ₹		12000		000		7000		2000		9004		3000		7000		1500		000		8		8		× 400	38		8

TOTAL NUMBER OF OBSERVATIONS

0 0

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 HOURS (1.5.T.) FE B

200

CEILING							VISI	VISIBILITY (STATUTE	TATUTE MILES)	ES)						
(FEET)	5	9 11	S) Al	<b>AI</b>	e Al	> 2%	7 1	۲۱ ۲۲	YI XI	-	AI AI	*	Z AI	≥ 5/16	VI VI	0 1
	4.9		85.8	85.8	85.8	85.8		5	85.8		85.8	85.8	85.8	85.8		85.8
> 20000	4.0				87.9	1.	87.9		7.		-	-	-	•	-	
	4.9		87.9	87.9	87.9	87.9		7.		•	87.9	87.9	87.9	87.9	-	87.9
≥ 16000	4.0		•	7.	87.9	7	1.	-	-	87.9	-	87.9				87.9
	4.9		87.9	87.9	87.9			7.	87.9	87.9	87.9	-	87.9	-	:	87.9
> 12000	4.9		4.68		6	89.4	9.68			6	6	89.4			6	89.4
1 -	9.0		89.4	4.68	6			89.4	•	6	•	89.4	99.4		89.4	89.4
0006	4.0		89.4	•	89.4	6	9.68	120	4.68	89.4			6	6		
	4.9		•	2.		•	•		•	2.	92.2	92.2		•	•	92.2
7000	4.9		92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2		5.	92.2	92.2	92.2	92.2
	4.9						2.			2.	•	92.2	2.		2.	92.2
2000	4.9		85.2			92.2	92.2		3	2	92.2		5.	2.	5	
	4.9		•				2.	3	•	2.	•	92.2	•		92.2	
141	4.0		6.26	92.9	2	92.9	92.9		2	3.	3		5.		5	
	4.0			•	•		93.6	3.			93.6		•		•	
3000	4.0		95.7	95.7	96.5	.0		96.5		96.5		96.5			96.5	96.5
	4.9		•		66.3	66.3	8.66		6		66.3	66.3	•.	6	86.66	99.3
7 2000	4.0		66.3	66.3	100.001	0	0.001			ċ	100.0	100.001		0		00.00
	4.0		66.3		100.00	0	0.00	00.00	0	0.001	100.0	10000	•.			0.00
1500	4.0		66.3	6	100.001	0		0		•	0	100.001	0	100.00	•	00.00
> 1200	4.9		66.3		100.00	0	100.00	0.001		0.001	0	100.001		0		00.00
V 1000	4.0	98.6		0	•	100.00	0	0	0	•	0	0.001	0	0	•	000
8 Al	4.0		66.3	-	100.00	0	0.00	0	0.001	00001				ċ		0000
	4.9			c.	0	0			0	•	0	0000	0	0	•	0000
V 70		9.80	66.3	0	•	100.00	0	0	0.001	0.001	0	0.00	•.	0000	0000	0000
009	4.4			6	100.0	0	0000	•	0		0		0	0	0	0000
200			66.3	66	100.0	0	0.001						•.		00.00	00.00
1 400	6.4	98.6	66.3		100.0	100.00	00.00	0	0			0	00.00	0	•	00.00
30			66.3		0		00.00		0.001	0.001	0.00		0	00.00		0000
	4.9		99.3	6	100.0	100.00	0.00	00.00	0.001	0.001	100.0	100.00	0.001	00.00	0000	00.00
VI 85	4.0	98.6	66.3	_	100.00	100.00	0.001	0.001	100.0	10000	100.0	0.00	0000	00.00	00.00	0000
٥	4.0		66.3	66.3	100.0	100.001	0.00	00.00	0.001	100.0	100.0	0.001	0.001	100.001	00.00	00.0

0

0

TOTAL NUMBER OF OBSERVATIONS

141

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HONTH B

ALL HOURS (LST.)

9

	0	2.2	9.	9.4	9.4	9.	7:	4.	7.7	3.2	3		-	7.	9.	9.	.3	. 5		8.	0.0	0.0	000	0.0	000	0	000	0.0	000	0.0	0.0	0	00
	AI	82	8	84	8	84	86	86	87	90	8	36	16	91	92		6	66	66	66	001	001	100	001	100	8	8	001	001	00	100	001	100
	7	•	4.0	9.1	9:	9.		4.0	1.7		1.3	1.1			9.					.8	000	00	0.0	00	0.0	0:	00	00	0:	0.0	00		0.
	AI	00	×	84	8	84	86	86	87	36	90	90	16		92	94	97		66	66	001	001	001	001	100	001	001	001	901	100	001	001	001
	5/16		4.6	4.6	4.6	9.	6.1	3.4	7.7		9.3	3.7	1.1	1.	5.6		7.3		7.7		0.0	0.0	•	000	0.0	000	•			0.0	0.0	000	000
	AI		- 7		8	8	8	86		6	90	90		0				6	66	66	ŏ	01	100	100	100	100	100	001	100	100	100	100	100
	2	2.2		4.6	9.	9.4	6.1	4.0	7.7	3.5	0.3	1:1	1:1		2.6	9.1	7.3	.5		8.	0.0	0.0	0:	0:0	0.0	0.0	0	0.0	0		0	0	0
	٨١	80 0	0	00	à	8	8			ŏ		06	0		0	0		6	6	-	2	2	-	-	100	-4	001	0	001	9	100	001	ğ
	*	2.2	000	4.6	9.4	9.4	5.1	4.0	1.7	3.2	0.3	0.7	1:1	-	2.6	9.4	7.3	3.5	7.7	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0:0
	٨١	_	-		30	8	ě	00	8	0	0	6	0	6	0	0		66		66	01	100	20	20	20	100	ŏ	100	10	001	100	0	801
	*	2.2		4.0	4.0	4.6	6.1	4.0	7.7		6.0	0.7	1.1		2.6		7.3	9.5		9.8	0.0	0.0		0.0	•	0.0			0.0		0.0	•	0:0
	٨١	00	_	00	œ	æ	8		00	0	0	6	0	6	0	0	0	0	0	ó	-	100	2	100	100	100	-	100	10	-	100	100	001
	-		4.0	4.6	4.6	4.6	6.1	6.4	7.7	3.2	0.3	7.0	1.1		2.6		7.3	9.5		8.6	0.0	0.0	0.0		0.0		•	0.0	0.0	•	0.0		000
LES)			0000	à	80	æ	8	8	œ	6		6	0		0		0	6	6	ŏ	10	100	10	100	100	001	100	01	100	001	0	001	100
VISIBILITY (STATUTE MILES)	7.	•	4.6	9.	9.	4.6		4.4	7.7	3.2	0.3		-	1.1	2.6		7.3	9.5	1.7	8.6	0.0	•	0.0	•			0.0		•	•	•	•	0:
TATU	Al		8	ě	8	8		8			ŏ					6		6		6	100	001	100	001		001		001	100		001	001	001
17 (5	17.	2.2					-	4.0	-	0.2	0.3	1.1	1.1		2.6	4.6	7.3	9.5	1.1	. O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0		0:
SIBILI	AI	00 (	-	ò	ě	œ	æ	8	00	0	0	6		0	0	6	0	0	0	0	-4	001	100	-	100	-	=	-	-	001	00	001	001
>	~ Al	2.2	9	4.5	4.6	4.6	1.9	4.9	7.7	3.2	6.0	1.0	1:1		2.6		7.3	•	9.7	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
	^"	œ :	20	œ	œ	@	00		ထ	3		6		0	0	9	0	0		0	10	10	10	0	10	0	0	100	100	9	0	100	100
	21/2	2.2	4.0	4.0	4.6	4.6	6.1	4.9	7.7	0.2	6.0	5.7	1.1		2.6	•	7.3	9.6	7.4	9.7	9.0	•	•	•	6.6		6.6	6.6	6.6	6.6	6.6	6.6	6
	AI	æ 0	4	20	30	8		8	á	3	0		9		9	6	0	0	0	6	0	3	0	6	9	0	0	0	0	6	0	6	0
	e Al	•	4.0	4.0	4.6	4.6	6.1	4.0	7.7	0.2	0.3	0.7	1.1	1:1	2.6	•	7.3	4.6	7.6	6.7						6.6	6.6	6.6	6.6		6.6		6.6
	<i>~</i> "	<b>60</b> 4	0	00	00	(X)		00	00	6	6	6	0		0	0		ò	0	6		0	0	6		0	Ö	0	0		0	5	0
	AI AI	2.2	4.0	4.6	4.6	4.6	6.1	6.4	7.7	0.2	0.3	0.0	1.1	1.1	2.6	4.9	7.2	9.3	9.6	6.1	9.6	9.6	9.8	6	9.6	9.6	9.8	9.6	8.6	6.8	9.8	9.8	
			-	æ	85	00	00		00	6	0	0	0		0	6	0	0	0	0	9	0	0	6	0	0	0	0	6	0	0	0	0
	40	2	:	4.6	4.6	4.6	6.1	9.9	7.7	0.2	:	1.0	1.1	1.1	2.6	4.5	-	6.6		:	:	:	:		:	:	9.3	-	9.6	-	9.8	-	9.8
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	NI NI	81.9															6.9				9.5			9.3	9.3	9.5	9.5	9.9	9.5			9.5	
																1																	
	2	37.7	8		8.9	8	6.0	0.2	0.7	1:	1.1	1.8	2.1	2.5	3.6	4.6	5.3	5.8	9.9	9.0	9.9	9.0	0.0	9.0	9.0	9.0	9.0	9.0	9.9	0.0	9.0	9.0	9.0
	AI	-	3	~	•	m	m	4	4	3	4	3	4	3	4	*	4	4	4	4	4	4	4	4	4	4	4	*	4	4	4	4	4
o z	E	CEILING	20000	00	16000	000	12000	8	0006	000	2000	8	2000	200	4000	200	3000	200	2000	800	1500	200	0001	8	900	200	900	200	400	300	200	8	•
CEIL	(FEET)	300	N AI		7		2		٨١		IAI		N N		111		INI		71		٨١	٨١			٨١		IAI	AI	AI	AI	AI	AI	ΑI

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TOTAL NUMBER OF OBSERVATIONS

11706 STATION

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CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

11706

GUANTANAMO BAY, CUBA

HOURS (L S.T.)

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

43

VISIBILITY (STATUTE MILES)

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(FEET)

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TOTAL NUMBER OF OBSERVATIONS

6.5 6.5

88

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80

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2

6.5

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0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0.4 HOURS (1.5.T.) MAR

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0			5	703	20	CEI	LIN	IG '	VEF	RSU	us v	/ISI	ВП	LIT	Y	IAL	N 71						)									)	
	٨١	90.3	91.0	91.0	91.0		91.0	91.6		8.46			8 . 76			96.1		4.66	0000	00.00		00.00			00.00	00.00	0.00	00.00	0000	00.00		0000	0000
	N N		91.0		91.0	-	91.0		2.3	4.8	4.8	8 . 46	4.8	00	8	-		*	00.00	00.00	00.00	0000		0000	0.00	00.00		00.00	00.00	00.00	00.00	00.00	00.00
	≥ 5/16		91.0	91.0		-		91.6				8 . 46				1.96		4.66	00.00	00.00	00.00	00.00	00.00	0000	00.00	00.00	00.00	00.00	0	0	•	00.00	00.00
	Z Al		91.0		91.0		91.0		2	*	*	8.46	*			1.96			00.00	00.00		00.00		00.00		0	0	00.00	•			00.00	00.00
	*	0	91.0	91.0	-	-	91.0	-	3	*	*	84.8		8.76		1.96	8.96		00.00	0.00	00.00	00.00		0000		00.00	00.00		0	0	00.00	00.00	0000
	% Al	0	91.0	91.0	:			91.6	3		8.46	*	*		8.56		96.8	4.66	100.00	0.00	00.00	0.00	100.00	0.001	00.00	0.001	0.001			•	00.00	•	0.00
	<u>-</u>	ò	91.0		91.0		91.0	•	3	*	*	8.76	*	8.76	4.8	7	8	4	0000	0	0.00	0000	00.00	0000	00.00	0000	00.00	0.00	00.00		•		0000
	VI 2/4	0	91.0	91.0	91.0		91.0				94.8		8.46		8.46	96.1	8.96		00.00	0.001		0.00	•	00.00			0.001	0.00	00.00	0.00	0	00.00	00.00
(STATE ALDIE )	۲۱ ۲۷	0	91.0	91.0	-	-	91.0	91.6	2	*			*	94.8		96.1			100.00	00.00		0.00			00.00		00.00	0.001				0.00	0.00
	AI	0		91.0	91.0		91.0			8.46		8.76			94.8	1.96	8.96		100.00	0.001	0.001	0.00	0.001	0.001	0	0.001	0.001	0.00	00001	0.00	0.00	0000	0.00
	1 2%	ċ	91.0	91.0	91.0	91.0	91.0	-	92.3	*	*		94.8	8.46	*		8.96		100.001	0.001	00	0.001	00	0.001		0.001	100.00	0.001	100.00	0.001		00.00	0.001
	N Al	0	91.0	91.0	91.0	-	91.0		2		8.46	8.76				1.96		4.66	100.00	0.00	0.001	10.001	0.001	0.001		0.001	0.00	0.001	0.00				0000
	AI	0		-		91.	91.	91.	2			*	94.8	8.76	-	1.96	96.8	4.66	00	00	.00	.00	100.0	100.0		0.001	100.00	100.0	100.00		00.00	00	100.0
	<b>85</b>	6.06	91.0	16	16	6	91.0	-	92.3	8.46	8.46	8.46	8.46	8.56	8.46	1.96	8.96	4.66	100.001	0.00	100.001	100.0	100.001	100.00	100.00	0.001	100.001	100.001	100.00	0.001	0.001	00.00	0.001
	۸I		91.0	91.0			91.0	91.6	92.3		8.46	8.46	94.8	8.76	8.46	1.96	8.96	4	100.001	0	0		100.001	100001	0	0	100.001	0	100.001	100.001	0.0	0.0	00.00
	2		6.5	6.9		6.5	6.5	6.9	6.5	6.5	6.5	6.5	6.5	6.5		6.9	6.9	6.5	6.5	6.5		6.5	6.5	6.5			6.5	6.51	6.51			6.5	6.5
CEILING	(FEET)	NO CEILING	N 20000	N 18000	N 16000	14000	¥ 12000		0006 ~1		> 7000		2000		8	1	3000		7 2000		≥ 1500		≥ 1000		800		9		N 400	300	1 20	8	

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TOTAL NUMBER OF OBSERVATIONS

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### 5703 CEILING VERSUS VISIBILITY JAN 7

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 HOURS (1.5.T.) MAR

200

	N N	84.	85.	85.	85.	85.8	85.		89.0		92.9	92.9	93.6	04.	94.	97.	98.	99.	00.00	00.	00.0	000	00.0	00	00.0	00.00	00	000	00	000	00.0	00.0	00
	VI N	4.		3	85.8	5					92.9					:	98.7		100.001	0.001				00.00	10.00	00.00	10.00	0000	10.00	00.00	00.00	00.00	00.00
	≥ 5/16	4	85.8	85.8	85.8	85.8	85.8	87.1	89.0		2	92.9			8.46		98.7	4.66	100.0	100.0	100.0	00001	100.00	0.001	10000	0000	100.00	0.00	100.00	0000	100.00	0000	100.00
	Z Al	84.5	3	5	85.8	85.8	85.8	-	6	2.		2	*		;		7.86	4.66	100.0	100.0		100.0	10000	0.001	0	0.001	100.0	0.001	100.0	100.0	100.0	0.001	100.0
	*	84.5		85.8	85.8		85.8	87.	89.0	2.	2	92.9		34.5			98.7	6	0	100.0	0	100.0	0	0.00		•	100.0	0.001	100.0	0.001	10000	0.001	10001
	% Al	•.	5	5	85.8	•	*	87.1	200	2.	92.9	2.		2.46		1.	8		0	0.001	0	•	0		0	0.001	100.0		100.0	100.0	100.0	0.001	100.0
LES)	ŽĮ.	80	85.	85.	85.	85.8	85.8	87.1		2.	2.	2.	3	34.2	*	97.4		0	100	100.0	0	0	.0		0	0.001		0.001			ò	·	100.0
VISIBILITY (STATUTE MILES)	¥1 Y	84.5	3.	85.8	5	85.8	85.8	87.1	6	92.3		6.26	3	94.2		•	98.7	6	100.0	•	100.0	0	0	•		100.0	100.0	0.001	100.0	0.00	0.001	0.001	0.001
SIBILITY (S	۲۱ ۲۷	8	85.	85.	20	0	85.	87.1	89.	92.	2		93.		. 76	0	98.	.66	100.0	100	0	100		0		0.001		.001	0	100.0	100.0	100.0	100.0
5	2 2	8	85.	3	85.	80	85.	87.1	89.	92.	-	92.	93.	0	94.	97.	98.	. 6	100.0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	≥ 2%	00	85.	_	82.	85.00	85.	87.	D	92.	_	92.	63	0	. 46	97.	98.	6	100	100.0	100.	0	-	01	2	-	100.0		100.0	100.0	100.0	0.001	100.0
	K 41	84.5	85.	85.	85.		85.	T	89.	92.	.26	92.	93.	0	. 46	97.4	8	4.66	100.0	91	0	100	100.0	0.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	<b>VI</b>		85.	00	85.	85.	85.8	80	89.	0	92.	92.			94.	8	98.7	7.66	100.0	100	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100.0
	۸۱ ۸۱	84.	85.	85.	85.8	85.	85.	87.	œ	.26	6	.26	63.	. 46	94.	97.	o.	.66	100	1000.0		100	100.			100.0	1000.0	10000	•	.00	100.0	00	100.0
	AI ·	83.	84.	80	84.	84.		88	87.	91.	91.	91.	92.	_	93.	96.		98.		_		98.	_		-	. 86	0		98.		_	5	98.
	٧١	3.	64.5	64.5	64.5	64.5	64.5	63.8	67.1	8	0.69	0.69		70.3	70.3		72.9			74.2		74.2		74.2		74.2		74.2		74.2		;	74.2
CEILING	(FEE)	NO CEILING	× 20000	N 18000	0009L ~	> 14000	12000		000 AI		7000		2000		1 4000		3000	1	7 2000		1500		7 1000		8		8	200	N 400		700	8	٨١

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

NOURS (LS.T.) MAR

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100.01000.01 ٨١ 91.0 4.16 24.5 2.46 94.8 95.5 6006 90.3 2.46 98.7 4.66 4.66 91.0 90.3 34.5 4.4 34.2 2.46 94.2 95.5 8.96 98.7 ≥ 5/16 91.0 4.16 6006 2.46 2.46 2.46 4.66 92.3 95.5 90.3 34.5 8.46 92.3 98.7 ۸۱ 91.0 4.16 90.3 90.3 92.3 2.46 2.46 2.46 2.46 95.5 4.66 4.66 8.46 8006 98.7 90.3 92.3 ٨I 92.3 4.76 90.3 92.3 2.46 2.46 2.40 600 0.16 1.86 90.3 8.46 2.46 95.5 % Al 8003 92.3 97.4 97.4 91.0 91.0 91.0 91.0 94.2 95.5 95.5 98.7 98.7 4.66 4.66 90.3 90.3 94.2 94.2 2.46 2.46 8.76 AI VISIBILITY (STATUTE MILES) 90.3 90.3 2.46 94.8 2.46 90.3 77 90.3 2.46 2.46 92.3 97.4 2.46 95.5 95.5 98.7 98.7 98.7 98.7 98.7 98.7 92.3 94.2 94.2 94.2 8.46 8.46 4.66 4.66 8.06 7 94.2 34.5 90.3 92.3 97.4 97.4 97.4 97.4 97.4 92.3 94.2 94.2 7 91.0 94.2 2.46 95.5 80.3 92.3 6.06 80.3 92.3 7.66 7.66 90.3 94.8 2 2% 92.3 2.46 95.5 04.5 6.06 91.0 92.3 94.2 8.46 8.46 8.46 6.06 90.3 90.3 94.2 94.2 ص ۱۸ 2.46 90.3 6.06 91.0 6.26 2.46 2.46 4.66 65.3 95.5 95.5 95.5 2.46 ۸۱ 90.3 0.16 2.46 6.06 6003 92.3 92.3 2.46 6006 34.2 94.2 4.66 4.66 ۵ ۱۸ 90.3 2.46 94.2 94.2 91.0 90.3 90.3 92.3 8.76 81.9 97.4 4 19.4 70.8 19.4 79.4 80.0 83.2 76.1 76.1 19.4 6.58 74.8 1001 75.1 77.4 NO CEILING

4500

ALAI

3500

AI AI

2000

ALAI

1500

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ALAI

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AI AI

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AIAI

TOTAL NUMBER OF OBSERVATIONS

155

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80

ALAI

88

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≥ 20000 VI VI 0008 0008 0008

12000

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(FEET)

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# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAME BAY, CUBA

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92.9

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		≥ 5/16	6	2	•		2	2	92.9	2	92.9		93.6					4.66		0	0	0	10.	10000	00.00		10000		0000		00.00	00.00	00.00	00.00
		N %		2	•	2	•	3	6.26	2	65.6		93.6			•		4.66			•	100.00		0.001	•	•		•			0.001	0000	0.001	100.0
		*			65.6		92.9		6.26		65.6		93.6					4.66		10000	0.001	100.0	10000	100.0	0000	10000	0.001	00	00	001	0.00	•	0.001	100.0
ш		% Al	89.7	92.9	6.26	92.9	92.9	92.9	6.26	92.9	92.9	95.9	93.6	94.5	8.46	94.8	8.96	4.66	4.66			100.0		100.0		100.0		•	100.0	•		0	100.0	0
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)	.ES)	- AI	6	92.9	2.	92.9						•	9.86	•	•		8.96	4.66	4.66	10000	0.001	00001	0.001	100.0	0.001	100.0	100.0	100.0	0.001	100.0	0.001	0	0000	0
NCY OF OCCUR	ATUTE MILES	71 2	89.7	2		92.9		2	•	3	•							4.66		100	00	100	001	-	00	00	001	001	0.001	100.0	0.001		0.001	•
Y OF	VISIBILITY (STATUTE	%1 <b>₹</b>	89	92.	92.	92.	92.	92.	92.	92.	92.	92.	93.	94.	. 76	94.	96.	4.66	.66	100	100	100	100	100.0	100	100	100	100	=	100	0000		0000	
SUENC RLY OF	VIS	12		2														4.66		100	100	100	100	001	100	100	100	100	001	100		001	0	100
FREQUE HOURLY		> 21/2		92.9					92.9									4.66						100.0	100.0				0.001		0.001	00	001	100
(FROM		e Al		-		92.9	10.00	2			-			-	-	-	-	66	-	100	100	100	100	-	100	100	001	100		100	-	001	001	-
PERCE		AI AI	.68	0	92.	92.	92.	92.	_	92.	92.	92.	63.	94.	94.	94.	96		66	100	100	100		100	-	100	001	001	001	100	100.0	001	00	00
		N N	89.	92.	92.	92.	92.	92.	92.	92.	92.	92.	93.	76	. 56	76	96		66	100		100	100	100.0	100	_	001	100	001	100	100	00	00	100.00
		۸I	89	92	26	92	92	92	92	92	85	92	63	36	94.8	94.8	96	66	66	100	100.0	100	100.0	100	100	100	001	001	001	100	100.0	0.001	10000	100.0
		VI 5		85.8	100	85.8	150	3	65.8	-	85.8	10	0		87.1	87.1	0.68	91.6	91.6	2	92.3	92.3	92.3	92.3					92.3	2.	92.3		92.3	
	CEILING	(FEET)	NO CEILING	≥ 2000		16000		≥ 12000	≥ 10000			7000		2000		400		98		300		1500		VI 000		00 AI		9 Al		N 40	88			٨١

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TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MAR

3

16 HOURS (1.5.T.)

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

19 MAR

٨١

1000

80.0 86.5 91.0 79.4 81.9 85.8 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 0.0010.0010.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.0100.01.00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 0.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 0.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 0.0010.0100.0100.0100.00 98.1 98.7 98.7 87.7 98.1 87.7 88.4 85.8 80.0 86.5 79.4 81.3 87.7 81.9 92.9 91.0 ٨١ 19.4 81.3 81.9 91.0 98.1 88.4 88.4 92.9 92.9 92.9 80.0 85.8 85.8 86.5 86.5 86.5 87.7 87.7 98.7 2 5/16 91.0 81.9 81.3 87.7 98.7 87.7 87.7 98.1 2 Al 80.0 85.8 88.4 4.64 91.0 98.1 7.86 87.7 ۸۱ 00.00100.0100.0100.0100.0100.0100.0100.01 79.4 81.3 81.9 86.5 85.8 87.7 98.4 88.4 88.4 88.4 91.0 91.0 91.0 91.0 92.9 98.1 80.0 87.7 98.7 ۸۱ PERCENTAGE FREQUENCY OF OCCURRENCE 98.1 98.1 79.4 85.8 79.4 79.4 81.9 90.0 86.5 86.5 92.9 81.3 87.7 87.7 87.7 87.7 98.7 98.7 ٨I VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 81.9 85.8 87.7 79.4 80.0 79.4 19.4 81.3 17 85.8 81.3 86.5 80.0 81.9 19.4 98.1 79.4 87.7 92.9 7.86 A 86.5 0.16 87.7 19.4 79.4 81.3 6.26 79.4 79.4 80.08 0.08 81.9 85.8 85.8 85.8 87.7 88.4 88.4 88.4 98.1 98.7 AI 81.3 91.0 86.5 87.7 92.9 98.1 98.7 87.7 2 2% 0.16 81.3 4.64 80.0 81.9 86.5 79.4 92.9 1.86 87.7 87.7 98.7 W VI 81.9 91.0 99.4100.01 0.0014.66 10.0014.66 99.4100.01 79.4 81.3 85.8 86.5 87.7 79.4 80.0 87.7 88.4 88.4 98.7 99.4100.0 98.1 92.9 Al 86.5 80.0 85.8 1.86 87.7 4.16 79.4 81.3 81.9 87.7 91.0 19.4 10.64 65.6 11 88.4 92.9 4.66 4.66 4.66 80.0 86.8 4.66 4.61 81.3 4.66 7.61 79.4 82.8 87.7 87.7 91.0 98.1 4.66 4.66 4.66 81.9 4.66 ٨I 11.0 2 ٨١ NO CEILING VI VI 0008 0008 0008 80 2000 1500 (FEET) 2 20000 12000 9000 4500 3200 2500 88 2000 900 88 88 88 AI AI ALAI AI AI AI AI AI AI ALAI ALAI AIAI ALA ALAL ALAI ALAI ALAI

TOTAL NUMBER OF OBSERVATIONS

155

91.0

91.0 91.0

91.0

6006

6.06 91.0 0116

87.7

85.3

92.3 92.3

91.6

9116

93.6 93.6 93.6

4.66

### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

73-77

HOURS (L S T MAR MONTH 22

E

86.5 86.5 86.5 86.5 86.5 85.8 85.8 PERCENTAGE FREQUENCY OF OCCURRENCE

VISIBILITY (STATUTE MILES)

86.5

86.5 86.5

86.5 86.5

4.5 4.3 ...

85.8

85.8 86.5

NO CEILING

N Al

AI

(FEET)

86.5 86.5

86.5

86.5

Y 14000

87.7

87.7

4.5

600

8.06 91.0 91.0

4.5 87.7 87.7

(FROM HOURLY OBSERVATIONS)

86.5

86.5

86.5

86.5 36.5

87.7 87.7

86.5

86.5

96.1 96.1 96.1 96.1 7.66 4.66 91.0 91.0 91.0 91.6 93.6 86.5 6.06 86.5 92.3 86.5 87.7 86.5 86.5 91.0 86.5 87.7 91.0 91.0 9116 4.66 4.66 4.66 4.66 96.1 96.1 90.3 91.0 91.6 86.5 86.5 86.5 86.5 86.5 86.5 86.5 86.5 6.06 86.5 86.5 0.16 91.0 87.7 87.7 87.7 86.5 91.0 91.0 91.0 91.0 91.0 86.5 86.5 91.6 91.6 86.5 87.7 87.7 90.3 90.3 90.3 91.0 ۸۱ 91.0 86.5 86.5 87.7 87.7 87.7 86.5 91.0 86.5 86.5 86.8 86.5 86.5 87.7 87.7 87.7 91.6 7 7 85.8 86.5 86.5 91.0 90.3 90.3 91.6 91.6 ۸I 91.0 86.5 87.7 0.16 91.0 0.16 91.6 86.5 86.5 86.5 85.8 86.5 90.3 87.7 87.7 86.5 87.7 87.7 ۸I 86.5 91.0 91.0 91.6 86.5 6.06 91.0 91.0 85.8 86.5 86.5 86.5 4

0.16

. 3

2000

AI AI

0.16

91.0

4.5 4.5

2000

ALAI

4.5

91.6

91.6

4500 4000

AI AI

1.96

4.5

3500

ALAI

2500

AI AI

1500

AI AI

1200

AI AI

96.1 96.1 96.1 96.1 96.1 96.1 96.1 96.1 4.5 99.4 99.4 99.4 99.4 99.4 99.4

88

ALAL

88

ALAI

88

ALAI

TOTAL NUMBER OF OBSERVATIONS

155

1111

SMOS DIRNAVOCEANMET

80

AI AI

88

ALAI

2

### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (LST.) MAR

	0	5.6	7.6	7.6	7.6	7.6	3.0	8.8	6		2.0	2.	2.5	5.	3.6	3.				3.0	3	3.0		0.0				3	3	3		0
	ΛI	œ	00	00	œ	00	80	8	8	0	0	6	6	0		6	96	6	ŏ	100	10	10	10	Pol	10	To	10	10	100	10	10	00
	NI NI	5.6	7.6	7.6	7.6	7.6	8.0	8.8	9.5	•	2.0	2.3	2.5	2.9	3.6	5.7	8.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		00	8	20	œ	80	œ	00		0		5	6	6	6	6	0	6	ò	10	Š	01	OT	10	ŏ	TO	OT	O	10	10	ŏ	000
	5/16	5.6	7.6	7.6	7.6	7.6	8.0	8 . 8	9.5	1.8	2.0	2.3	2.5	2.9	3.6	5.7	8.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Al	00	8	8	00	20	8	00	20	0		6	0	0	0	6	0	0	20	100	100	100	100	100	010	100	0	010	10	010	010	001
	72	5.6	7.6	7.6	7.6	7.6	8.0	•	9.	•	2.0	2.3	2.5	2.9	3.6	5.7	8.1		0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Λ.	8	8	_	8	-	8	8		6	-	0	0	0		6	0	66	10	-	010	0	P1	-	10	010	10	100	010	010	010	100
	*	5.6	7.6	7.6	7.6	7.6	8.0	8.8	9.5		2.0		2.5	5.9		5.1	8.1	6.5	0	0.0	0.0		0.0	.0	0.0	0.0	0	0.0	0.0	0.0	0	0.0
		80	8 9	8	00	00	8	00		0	0	_	6	6		6 1	0	6	0010	010	010	10	0	010	070	010	100	010	010	010	10	0000
	× Al	5.6	7.6	7.6	7.6	7.6	8.6	8.8			2.0		2.5	2.9	3.6	5.		6	0.0		0.0	0.0	0.0		0.0	0	0.0	0.0	0.0	0.0	0	0.0
	\\\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	20	8	00	00	00	8	8		0		0	8	0		0	0	6	10	010	100	20	10	100	10	01	010	100	010	070	10	0010
	- Al	5.6	7.6	7.6	7.6	7.6	8.0	8.8		1.8	2.0	2		2.9	3.6	5.7	8	9.2	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(ES)		00	8	00	00	8	90	8	00	6	0	0	0		3	O	0	0	2	10	0	100	10	10	2	100	0	0	01	01	0	00
TE M	1.7	5.6	7.6	7.6	7.6	7.6	9.0		9.5	1.8	2.0	2.3	2.5	2.5	3.6		8.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TATO	ΛI	00	00	æ	œ	00	æ	ac	80	0	0	0	0	9	0		0	ò	01	Č	OF	100	100	100	ŏ	100	ŏ	100	Ö	01	ō	001
VISIBILITY (STATUTE MILES)	1%	5.6	7.6	7.6	7.5	7.6	0.8	8.8		1.8	2.0	2.3	2.5	2.9	3.6	5.7	8.1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIBIL	Al	œ	00	60	0	8	20	8	00	0	0	0	0	0	5	0		0	10	01	0	20	10	10	2	20	0	0	01	10	10	00
>	7	5.6	7.6	7.6	7.6	7.6	8.0	8 . 8	9.5	•	2.0	2.3	2.5	2.9			. 80	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		20	00	00	œ		00	60	00	6	0	o	0	9	0	0		0	010	07	10	100	10	100	010	010	10	0	OT	100	10	100
	21/2	5.6	7.6	7.6	7.6	7.6	8.0	8.8		1.8	2.0	2.	2.5	2.9	9.6	5	8	9.3	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000
	۸ı	00	8	20	00	90	00	00	O	0	9	0	0	0	9	0		0	01	100	100	100	10	100	1100	100	100	100	100	100	100	001
	N N	5.6	7.6	7.6	7.6	7.6	8.0	8.8	9.5	1.8	2.0	2.3	2.5	2.9	3.6	5.	8.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000
		00	cc	<b>6</b> 0	0	œ	20	60	90	9	9	0	6	0	0	6		0	10	10	TO	100	10	100	100	100	10	100	OTO	100	10	0
	AI	5.6	7.6	7.6	7.6	7.6	8.0	8.8	9.5	89	2.0		2.5	2.9	3.6	5.3	8.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		00	60	80	00	00	90	00	80	6	0	0	9	9	0	5	0	0	10	10	10	10	10	100	10	100	100	100	10	01	20	100
	۶۵ ۸۱	5.6	7.6	7.6	7.6	7.6	8.0	8.8		1.8	2.0	2.3	2.5	2.9	3.6	5.1	6.0	9.2	6.6		6.6	•	•		6.6	6.6	6.6	5.6	6.6		6.6	0.0
	\\\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	0	80	80	00	00	20	200	00	6	0	Q.	O.	6	Ç,	9	0	0	0	0	C.	0	9	6	6	0	9	6	0	6	0	00
	۰ ۸۱		7.3		7.3				9.3	:	-		2.3					8.9		9.6			9.6			9.6		9.6		9.6		9.0
		1				1	87	0	80	6	0	0	0			1		1	-	66											66	
	0	0.6	1.	1.			42.0	2	42.6	3.	3.2	3.5	4.	3.6	43.8	44.7	45.8	6.1	46.4	40.4	6.4	40.4	6.4	40.4	40.4	40.4	46.4	46.4	40.4	40.4	4.0	46.4
	Al	+	4	4	*	\$	4	4	4	3	4	4	4	3	4	3	4	4	4	t	4	4	4	*	4	4	4	3	4	4	\$	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
ğ	E.	NO CEILING	20000	8	16000	000	12000	000	0006	000	2000	000	2000	200	4000	200	3000	200	2000	800	1500	200	1000	006	800	200	900	200	400	300	200	80
CEILING	FE.	0 0	۶ ۸۱		1 1	V 14	7		٨١	ł	A	1	N N	1	IVI	1	INI	1	M		٨		٨١		۸I		Al		٨١		٨١	AIA
		Z		_	_			L	_		_	_	_	_													_			_		

TOTAL NUMBER OF OBSERVATIONS

1240

1111

11706 STATION

3

# CEILING VERSUS VISIBILITY

WAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

73-77

(FROM HOURLY OBSERVATIONS)

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE

OL HOURS (LS.T.) APR

2

10

92.0 92.0 93.3 99.3 99.3 99.3 99.3 00.00100.010 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00000000 0.0010.001 00.00100.00100.00100.00100.00100.00100.00100.00100.00100.00100.00100.00100.00 00.0100.0100.0100.0100.01.00.010 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 88.0 88.0 88.0 88.0 98.7 98.7 0.0010.001 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 94. ٨١ 87.3 61.3 93.3 87.3 92.0 87.3 61.3 61.3 88.7 92.0 88.7 94.7 1 ٨I 87.3 87.3 88.0 91.3 92.0 87.3 91.3 91.3 92.0 98.7 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 88.7 93.3 88.0 88.7 2 5/16 94.7 87.3 0.88 61.3 91.3 92,0 85.3 87.3 63.3 91.3 0.26 87.3 88.0 88.7 88.7 7.46 98.7 98.7 98.7 98.7 98.7 ٨I 87.3 92.0 88.0 93.3 91.3 91.3 87.3 88.0 88.7 91.3 91.3 92.0 92.0 88.7 94.7 87.3 87.3 61.3 66.3 88.0 88.7 91.3 0.26 88.0 93.3 1.76 Al 87.3 87.3 91.3 92.0 92.0 92.0 93.3 93.3 86.3 66.3 88.0 88.0 88.0 88.0 91.3 91.3 91.3 91.3 91.3 88.7 94.7 94.7 ٨I VISIBILITY (STATUTE MILES) 87.3 88.0 87.3 61.3 88.7 88.7 88.7 VI 72 87.3 87.3 88.0 91.3 99.3 99.3 99.3 99.3 99.3 99.3 93.3 88.7 91.3 94.7 87.3 87.3 87.3 0.88 95.0 95.0 48.7 85.3 61.3 61.3 93.3 94.7 88.0 91.3 88.7 88.7 ΛI 87.3 61.3 91.3 67.3 92.0 92.0 88.0 88.0 88,7 93.3 88.7 91.3 91.3 91.3 94.7 98.7 98.7 98.7 98.7 98.7 ٨١ 87.3 88.0 91.3 92.0 87.3 87.3 92.0 92.0 68.0 88.0 88.7 61.3 93.3 93.3 93.3 93.3 88.7 94.7 ۳ ۸۱ 87.3 0.56 87.3 91.3 91.3 0.88 88.7 94.7 ٨١ 87.3 88.0 61.3 61.3 92.0 87.3 92.0 92.0 88.0 88.0 88.7 88.7 91.3 91.3 94.7 94.7 91.3 88.0 0.26 87.3 88.7 88.7 ۰ ۱۸ 2 AI NO CEILING V 18000 Y I Y 1 1500 80 (FEET) ≥ 20000 000 000 000 2000 2000 4500 3200 2500 1200 88 88 88 88

AI AI

AI AI

0

ALAI

AI AI

0

ALAI

0

AI AI

0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE

04 HOURS (1 S.T.) MONTH

200

APR

0.46 98.7 7.06 98.0 66.3 0.0010.0010.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 90.7 ٨١ 92.0 92.0 93.3 93.3 93.3 94.0 94.0 0.96 0.96 98.7 98.7 93.3 93.3 98.0 98.0 99.3 99.3 90.7 7.06 7.06 93.3 93.3 90.7 90.7 7.06 7.06 0.26 92.0 93.3 92.0 2 5/16 0.96 92.0 93.3 6.66 92.0 0.46 98.0 93.3 40.7 92.0 93.3 93.3 48.7 7.06 4.06 99.3 99.3 ۸۱ 92.0 93.3 0.46 98.0 0.96 93.3 93.3 93.3 99.3 90.7 7006 92.0 92.0 7.86 7.06 \* 89.3 7.06 7.06 63.3 93.3 93.3 95.0 96.0 96.0 96.0 96.0 96.0 1.86 66.3 7.06 0.26 93.3 93.3 04.0 94.0 94.0 94.0 94.0 0.86 66.3 7.06 % \ 93.3 93.3 93.3 93.3 93.3 99.3 99.3 99.3 99.3 7.06 92.0 92.0 7.86 7.86 90.7 90.7 90.7 90.7 7.06 7.06 92.0 92.0 93.3 93.3 98.0 98.0 99.3 99.3 7.06 93.3 93.3 <u>\_\_</u> VISIBILITY (STATUTE MILES) 93.3 4.06 7.06 VI 72 40.0 63.3 98.0 98.0 7.06 90.7 90.7 90.7 92.0 92.0 92.0 92.0 93.3 93.3 93.3 66.3 66.3 93.3 93.3 98.7 98.7 7 89.3 1.06 93.3 7.06 ۸I 63.3 90.7 93.3 0.46 66.3 95.0 92.0 0.85 99.3 99.3 99.3 7.06 90.7 98.7 1 2% 95.0 95.0 98.0 90.7 90.7 6.66 0.46 96.0 96.0 93.3 63.3 93.3 93.3 90.7 90.7 7.06 7.06 7.06 7.06 7.86 7.86 90.7 90.7 ۸I 89.3 0.26 92.0 93.3 0.46 0.46 0.86 16.66 93.3 6.66 66.3 93.3 93.3 93.3 1 0.96 0.86 92.0 7.86 8.66 2006 2006 93.3 93.3 93.3 66.3 86.3 90.7 92.0 92.0 93.3 66.3 66.3 66.3 66.3 7.06 66.3 99.3 ۷) ۱۸ 0.96 66.66 0.46 92.0 98.0 63.3 99.3 66.3 92.0 99.3 93.3 7.86 66.3 86.66 66.3 40.4 7.06 93.3 6.66 N N ۷I ک

2000

ALAI

AI AI

3500

AI AI

2000

AI AI

1500

AI AI

900

ALAI

88

ALAI

88

ALAI

900

AI AI

TOTAL NUMBER OF OBSERVATIONS

150

901

0.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.00 100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0

66.3

66.66

88

AI AI

80

88

ALAI

66.3

11706

NO CEILING

Y 2000

Y Y Y 1200

(FEET)

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 HOURS (1.5.T.) APR

3

0

											-				-	
CEILING							VIS	IBILITY (ST.	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2	۸I	S) Al	AI	N AI	1 2%	Al	۲۱ ۲۷	¥1 Y	ŽĮ.	% Al	* 11	% Al	≥ 5/16	7/ 1/	٨١
O CEILING	650	0	81.3	2.	2.	2.	2.	2		2.		2.	2.	2.	2.	82.0
> 20000	68	4	86.0	86.7	86.7		86.7	86.7	.9		86.7	86.7	86.7	86.7	86.7	
7 18000	*		ė	9			.0		9		0	.0	0	9	9	
≥ 16000	68.7		.9	86.7	86.7			86.7		.9			86.7	86.7	;	86.7
N 14000	0	85.	.0	87.3				1.	-		-	-		-		
≥ 12000	0		87.3	88.0	88.0	8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
V 10000	-	87.	8	6	6	5	6	6		6	6	6	6	9.	6	
0006	-			89.3	89.3		89.3			89.3		89.3	89.3	89.3	6	89.3
8000	71.3	88.0	6	0	0		0	0	0		0		0	0	0.06	
7000	2		0	91.3	91.3	-	91.3	91.3	-	-	-	91.3	61.3	-	-	91.3
0009				-	-		-	-		-	-		-	-	-	
2000	N	89.3	40.7	91.3	91.3	-		-	-	-		91.3	61.3	-		91.3
> 4500	53		-	92.0	2.	2	2	2	2	2	2		2.	2	2.	92.0
141	1	90.7	92.0	92.7	92.7	92.7	92.7	92.7		92.7		7.26	92.7	92.7	92.7	92.7
> 3500		92.7	*		*	*	3	4	3	4	4.	7.96	4			94.7
3000	-				7.86		48.7			7.86		7.86	98.7	98.7		98.7
1 .			7.80	66.3		0	6	6		6		66.3	99.3	86.3		99.3
7 2000	78.0	97.3	7.86	8.66	66.66		8.66	99.3	86.66	8.66	8.66	86.66	66.3	86.66	66.66	99.3
			48.7	66.3		66.3	6	6		6		66.3	66.3			99.3
> 1500	78.0	98.0	99.31	100.001		.0		0		ċ	0.001	100.0	0.001			00.00
	78.0		66.3			0	0.001	0		0						00.00
1000	78.0	98.0	99.3	100.00	100.00	0.00	100.001	10.001		0	0.00	100.00	00.00	100.00	0	00.00
	78.0		99.3	0.00		0000	0			0						000
8	78.0		99.3			0	100.0	0	00.00	0		10000			0	00.00
	78.0		66.3			0				0			0.00		00.00	00.00
9		98.0	99.3	100.00		0	100.001	0	10.00	0	0		00.00	10000	00.00	0000
	78.0	0.86	99.3	0.00		0.00	0.001	0	00.00	0	0000	0000	00.00		00.00	00.00
1 400			99.31	100.001	100.00		100.00			0.00	0	0.001	0000	•	00.00	000
	78.0	0.86	66.31	100.00	0.001	0000	0.001	00.00	00.00	0	00.00	0.001	0.00	00.00	00.00	0000
× 200	73.0		66.3	0.001	100.00	0.00	100.00	100.00	00.00	0	0.00	100.0	0000		00.00	00.00
81	78.0	0.86	66.3	0.00	0.001	0000	0.001	00.00	00.00	0000	0.00	0.001	0000	00.00	00.00	000
٥	8	00	99.3	0000	10000	0.00	10000	100.00	00.00	0000	0.00	0000	0.00	10000	00.00	00.00

TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

HOURS (L S.T. APR 10

4888

86.0 92.0 92.0 97.3 91.3 AI 97.3 86.0 86.0 87.3 86.0 88.7 92.0 92.0 93.3 93.3 66.3 86.7 99.3 99.3 66.3 91.3 89.3 6103 92.7 91.3 99.3 1 ٨١ 86.0 86.0 86.0 87.3 92.0 97.3 66.66 80.66 66.3 88.7 91.3 92.0 86.66 91.3 99.3 89.3 91.3 86.7 92.7 2 5/16 97.3 86.0 86.0 87.3 88.7 91.3 92.0 66.3 66.3 66.3 92.7 86.0 89.3 91.3 61.3 99.3 99.3 93.3 93.3 93.3 85.7 86.7 2 A 86.0 86.0 6116 86.0 92.0 97.3 66.3 87.3 88.7 89.3 91.3 92.0 66.3 99.3 99.3 92.7 91.3 86.66 \* 82.7 82.7 92.0 6.16 86.0 87.3 95.0 86.0 86.0 86.0 88.7 61.3 66.66 66.3 66.3 89.3 66.3 86.7 61.3 66.3 91.3 92.7 7 87.3 66.66 6.66 92.0 92.7 86.0 86.0 86.7 97.3 6.66 66.3 88.7 89.3 91.3 92.0 91.3 91.3 66.3 VISIBILITY (STATUTE MILES) 86.0 61.3 91.3 92.0 66.66 89.3 69.3 7.26 87.3 87.3 61.3 92.0 92.0 93.3 93.3 97.3 97.3 97.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 88.7 88.7 88.7 86.7 86.7 ¥ = 1 91.3 86.0 86.0 86.0 86.0 86.0 61.3 91.3 99.3 89.3 99.3 99.3 92.7 ٨١ 61.3 86.0 87.3 92.0 89.3 61.3 91.3 92.0 66.3 63.3 99.3 86.7 666 97.3 86.0 92.0 86.0 86.7 91.3 95.0 66.3 91.3 8.66 89.3 91.3 86.66 66.3 88.7 7 2% 86.0 57.3 87.3 6.16 66.3 86.0 61.3 95.0 92.0 66.3 86.0 91.3 91.3 6116 92.7 68.3 66.3 86.7 89.3 88.7 88.7 99.3 Al 86.7 86.7 86.0 89.3 97.3 66.3 60.3 92.0 92.0 63.3 86.0 86.0 91.3 92.7 66.3 66.3 66.3 6116 A 86.0 88.7 91.3 6.66 86.0 86.0 89.3 92.0 92.0 92.7 66.66 6.66 6.66 6.66 96.7 97.3 63.3 6116 Al 85.3 92.0 0.96 98.0 98.0 86.0 88.0 1.06 0.86 91.3 91.3 98.0 85.3 86.7 88.7 4.06 4.06 92.7 ٨I 76.0 82.0 87.3 81.3 87.3 87.3 87.3 87.3 76.0 79.3 87.3 76.0 81.3 82.0 87.3 87.3 87.3 87.3 77.3 78.7 87.3 87.3 82.7 86.7 87.3 87.3 87.3 76.7 2 CEILING VI VI 0008 1 VI 0008 Y 14000 88 CEILING (FEET) 20000 900 900 900 8000 7000 2000 4500 3500 2000 80 1500 900 88 88 88 AI AI AI AI MIM AI AI AI AI AI AI MIM AI AI AIAI AIAI AIAI o MAIA AI AI

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

73-77

-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

APR HOUTH

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	٥	0.08	84.0	84.0	0.48	84.7	85.3	87.3	87.3	2006	1006		1006	1006	91.3	92.7	95.3	0.00	0.00	0.001	0000	0.00	0.00	0.00	0.00	0000	000	0000	0000		00.00	0.00	0000
	% Al	0.08	84.0	84.0	0.48	84.7	85.3	.3	87.3	1.0	1.0	0.7	1.0	1.0	1.3	2.7	629	0	0	0.	0	0	0	10.00	0	10.00	0	00.00	10.00	00.00	10.00	0.00	10.00
	≥ 5/16	80.0	0.48	*	84.0	84.7	85.3	87.3	7.3	1.0	1.0	100	0.7	0.7	91.3	2.7	95.3	10.00	0	0	.0	0	0	10.	0.	0	0.0	10.0	10.00	00.00	20.00	0.00	10.00
	% %		94.0		34.0	34.7	35.3	37.3	37.3	1.0	90.7	1.0	90.7	0.7	6116		5.3	30.01	00.00	0	0	0	0	00.01	0	10.	0	00.01	0	0	00.00	0.00	10.00
	*	0.0	84.0	*	84.0	84.7	85.3	87.3	87.3	1.0	.7	0.7	. 7	1.0	91.3		95.3	10.	00.00	-	.0	0	0	10.	0	10.0	0.0	10.0	0.0	00.00	00.00	0.00	10.00
	% Al	0.0	34.0	0.4	0.4	10.48	15.3	17.3	17.3	1.0	.7	1.0	1.0	0.0	1.3	2.7	5.3	0	00.00	0	0	0	· 0	00.00	.01	10.	.0	00.00	.0	.0	00.0	0.010	10.0
	-	0	4.0	8 0 %	8 0.4	4.7	5.3	7.3	7.3	2.0	0.7	0.7	1.0	0.7	1.3	2.7	5.3 9	10.0	0.0	-		ō	0.0	10.0	-	-	0.0	10.0	-	0.0	0.010		0.010
UTE MILES)	×- ×-	80.08	8 0·4	8 0.4	8 0.4	4.7 8	5.3 8	7.3 8	7.3 8	6 4.0	1.0	2.0	6 2.0	0.7 9	1.3 9			010.00	00.00		-	00.010	00.00	010.00	0	10.	00.00	00.00	00.00		00.00	-	010-0
VISIBILITY (STATUTE MILES)	۲۱ ۲۳	0.0	4.0 8	8 0.4	8 0.4	4.7	5.3	7.3 8	7.3 8	0.7	0.7 9		0.7	0.7	11.3 9		95.3 9	00.010	00.010	0	.01	00.010	0	10.0	0.010	00.010	0.010	0.0	0.010	0.010	0.00	0.010	0.010
VISIBI	~ Al	0	4.0	4.0 8	•	4.7	5.3	7.3 8	7.3 B	6 1.0		5 2.0	6 2.0	6 4.0	1.3 9	2.7	5.3	00.00	0	-	00.00	0	0	00.00	00.00	00.00	00.00	00.000	00.00	00.00	00.00	00000	0.010
	2 2%	80.08	4.0 8	_	8 0.4	4.7 8	5.3 8	7.3 8	.3	90.7 9	1.0	6 1.0	0.7	0.1	1.3	2.7	5.3	00.010	00.00	=	00.00	00.010	00.00	00.00	0	10.	00.00	000.010	00.010	0	00.00	10.	00.00
	۳. ۸۱	0.0	4.0	4.0	8 0.4	4.7	5.3 8	7.3 8	7.3	1.0	.7	1.0		90.7	1.3 9	2.7	5.3 9	00.010	00.00	-	00.00	-	0	00.00	00.00	00.00	00.00	00.00	00.00	00.00	0.0	00.00	0.010
	4	0.0	4.0 8	8 0.4	4.08	4.7	5.3 8	7.3 8	7.3 8	. 7	1.		. 7	6 2.06	1.3 9	2.7	5.3	. 31	99.310	. 31	.31	3	.3	99.310	9.31	.31	.3	.3	.31	.31	99.310	.3	9.310
	ss Al	0.0	4.0 8	8 0.4	4.0	4.7	5.3	7.3 8			. 7	-			1.3 9	2.7 9	5.3		.3	.3	·	3	3	.3	.3	.3	.3	.3	• 3	.3	.3	99.3	7.3 7
	<b>9</b>	0.0	4.0	0.4	4.0		•	.3		.7							•			•		.3	.3		.3				.3			66.66	
	9 4	74.0 8	3	3	m	0	~	1	1	0	0	0	0	0	0	0	0	3	0	3	0	6	63	2	0	3	3	~	3	3	3	66.3	9
Ö		-			16000	-	12000	-	9000		2000		2000		4000		3000	-	2000		1500		1000		900		900		400	300		90	٦
CEILING	Jan 1	NO CEILING	> 20000	V 18	141	141	141		AI		1 1		۱۸۱	1	i Al		i Ai	1	141		٨١		1 1 1		A		AI		AI		٨١	Al	^1

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150

TOTAL NUMBER OF OBSERVATIONS

2

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0.0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16 HOURS (1.5.7.) APR

200

1

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	.ES)						
	٧١	AI V	V)	4	۸I	Y 2%	7	۲۱ ۲۲	YI %	<u></u>	% Al	* AI	X Al	2 5/16	× ×	AI
NO CEILING	58.7		65.3	5		5		5.		5		5		65.		65.3
≥ 20000			3		•	•	•	3.	3		73.3	73.3	73.3	73.	73.3	73.3
		73.	3	3		3	•	3.	•			3	•	73.		73.3
V 16000		73.				3		3	•			3		73.		73.3
		74.	*			*	•	4		*		4.		74.		74.0
> 12000	68.0	75.3	3	75.3	75.3	75.3	5	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
		77.				7.	-				-	:	-	77.		77.3
0006	70.7	78.0	*					8	78.0	*				78.		78.0
		_		*	4	4	4	*		3				84.	;	
1 7000	76.0	84.7	*	4	84.7	34.7		;	*	*		84.7	84.7	84.	84.7	84.7
1				4	*			*			:			84.		
2000	77.3			86.7	86.7	86.7		86.7	;	86.7		86.7	86.7	86.7	86.7	86.7
	77.3	_	.0		•	9	9	9	9	.9	86.			86.		
4000	78.7			88.0	88.0				8	88.0	88.			88.		88.0
		90.			0	0	0	0		ċ	90.		0	90.	0	
3000	84.0		;	44.7	1.46	95.3	95.3	5			3	95.3	3	95.	3	95.3
	3	95.	0.96				7.96	1.96	7.96	7.96	96.7		96.7	0	40.7	96.7
7 2000	3	-	-		-	8	8							98.	8	
	85.3	_	1.							8			30	98.	8	98.7
1500	2	96.	-	0.86		9		6		6	6		6	-	6	
	5							6		6			6	66		99.3
1000	85.3		-		*					6	6		6	99.	6	
	3	_	•					6		6		66.3	99.3	99.		99.3
00 <b>8</b>	85.3	96.7	-	0.86						ò	0	ò	0	2	0	
	3	96.7	•							ċ	0	ò		100	0	0000
8	'n	96.7	-				8							100	0	0001
		96.7	-	0.86		98.7		6		ċ	0	100.0	100.0	2		100.0
A 40	85.3		-		0.86		*	6		0				100		
	85.3	40.4	7.	0.86		48.7		66.3	66.3	0		100.0	100.0	-	0.001	0001
× 200	85.3	96.7	1.		8			6	99.3		100.0	100.0	100.0	0	0.001	1000
VI 80	85.3	96.7	67.3	98.0	98.0	98.7	7.86	66.3	99.3	100.0	100.0	100.0	100.0	10000	0.001	1000
1	85.3	96.7	-			98.7	98.7		66.3	0	100.0	100.0	100.0	2	100.0	00.0

TOTAL NUMBER OF OBSERVATIONS

0.

0

0 0 0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19 WOURS (1 \$ T.) APR

CEILING							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
(FSET)	0 1	٥ ٨١	S AI	4	e Al	≥ 2%	2 1	71 71	¥1 Y	- AI	% Al	*	V X	≥ 5/16	VI VI	0 11
NO CEILING		58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7		58.7	58.7	58.7
7 18000						8	8		8	8	65		30		8	68.0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.0			68.0		68.0	00	68.0	8		68.0	68.0		68.0		
			68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 12000			70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0		70.0	20.0	70.0
2 10000			72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
			73.3			73.3	73.3	73.3	73.3	73.3	73.3	73,3		73.3	73.3	73.3
			80.7		80.7		80.7	80.7	0		80.7	80.7		0	0	80.7
> 7000			80.7	80.7	80.7	80.7			80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
			80.7		80.7	80.7	80.7	80.7	0		80.7		80.7		80.7	80.7
2000			80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7		80.7	80.7	80.7	80.7	80.7
			80.7	80.7		80.7	80.7	80.7	0	80.7	80.7	80.7	80.7	0	80.7	80.7
× 4000			83.3		3			83.3	83.3		83.3			83.3	83.3	83.3
			87.3	87.3	87.3	87.3	87.3	•	-	87.3	87.3	87.3			87.3	87.3
2 3000			92.7	2.	2	92.7	92.7	92.7	92.7	2	92.7	92.7				92.7
≥ 2500			97.3	1.	-	97.3	97.3	-	-			97.3	97.3	97.3	97.3	97.3
> 2000			66.66	6	6	6	80.66	100		69.3	66.3	86.3	6	86.3	86.66	66.3
1800			99.3	66.3	66.3	88.3		8.66	•	66.3	66.3	66.3	99.3	66.3	66.3	99.3
	3		•	6	6	6		100.0		0.001	0	10000	•	0	00.00	0.00
2 1200			99.3	6	6	66.3	66.3		100.00	0.001	0.001		0	10000	0.00	0000
1000			99.3		66.3		99.3	0.001	100.001	0.001	100.0	10000	0	100.00	00.00	0.00
00 Al	13.3		99.3	6	6	66.3			100.001	0.001	0.001	10001		100001	00.00	0.00
	3		66.3					100.0	100.001	10000	100.0		0	100.001	00.00	0.00
			66.3	66.3	•	66.3	66.3	0.001	100.00	0.001	0.001	100.0	0.001	100.00	00.00	0.00
009 3			99.3				99.3		100.001	10000	100.0	100.0	0	100.001	10.00	0.00
> 500	•		•		•	66.3	66.3		100.001	0.001	0.001	100.0	0.001	100.00	00.00	0000
V 400	3		8.66		66.3	99.3	66.3	100.0	100.0	0.001	0000		100.0	100.001	00.00	0.00
88	13.3		99.3		99.3	99.3	86.3	•	•	•	0.001	100.0	_		0.00	00.00
			39.3		66.66	39.3	66.3	0.001	0.001	0.00	0.001	1000	00.00	0.001	0000	000
80	13.3	99.3	800	66	66	99.3	99.3	0.00			0000	00000	0.00	0	0000	000
1	C.		21.0		27.5	2300	19.3	000	0.00	0000	0000	2001	2	1000	0000	000

TOTAL NUMBER OF OBSERVATIONS

50

66.3

99.3

AI AI

AI AI

ALAI

90.0

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706

APR

1000

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85.3 85.3 89.3 89.3 96.0 96.0 86.7 86. 84.0 86.0 84.0 89.3 0.06 0.86 866 66.66 84.0 0.06 616 0.06 ٨I 89.3 89.3 84.0 84.0 89.3 0.96 84.0 85.3 86.0 0.06 0.06 99.3 85.3 89.3 91.3 98.0 90.0 86.7 2 5/16 0.86 84.0 85.3 86.0 89.3 89.3 0.06 90.0 0.96 84.0 89.3 0.06 61.3 84.0 84.0 86.7 99.3 66.3 66.3 66.3 2 ٨I 89.3 0.96 84.0 85.3 86.0 89.3 89.3 0.86 0.06 0.06 0.06 91.3 84.0 86.7 86.66 ٨I 89.3 84.0 66.3 85.3 89.3 0.06 0.06 0.96 0.06 61.3 86.0 89.3 0.86 84.0 86.7 AI PERCENTAGE FREQUENCY OF OCCURRENCE 0.06 0.96 84.0 84.0 84.0 84.0 90.0 90.0 90.0 91.3 89.3 89.3 89.3 90.0 90.0 98.0 98.0 99.3 99.3 99.3 99.3 86.0 86.0 86.0 86.7 86.7 89.3 89.3 89.3 ۸۱ VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 0.06 0.96 0.96 91.3 91.3 85.3 85.3 89.3 89.3 89.3 85.3 85.3 85.3 7 0.06 99.3 0.06 89.3 66.3 84.0 84.0 0.86 86.7 86.7 7 1% 0.96 85.3 0.06 89.3 0.06 0.06 66.66 84.0 666 89.3 61.3 0.86 66.0 7 35.0 86.0 89.3 89.3 0.96 86.3 0.06 85.3 85.3 89.3 89.3 0.06 0.06 0.06 0.06 91.3 98.0 98.0 6.66 86.7 86.7 7 2% 0.96 89.3 86.0 89.3 0.06 91.3 66.3 84.0 85.3 66.3 84.0 84.0 ۸I 85.3 86.0 89.3 0.06 98.0 99.3 0.96 84.0 89.3 89.3 0.06 90.0 90.0 90.0 84.0 86.7 86.7 89.3 91.3 66.3 Al 0.06 0.96 84.0 89.3 0.86 84.0 84.0 61.3 0.06 0.06 86.0 86.0 86.3 88.3 66.3 89.3 89.3 ٨١ 89.3 91.3 0.96 89.3 0.86 84.0 0.06 66.3 86.7 ٨١ 2.0 2.0 2.0 2.0 2.0 2.0 7.0 2.0 2.0 2.0 5.0 2.0 2.0 2.0 NO CEILING VI VI 0008 1 0008 1 (FEET) × 20000 Y Y 1400 VI VI 2000 2000 3500 2500 4500 1500 1200 88 88

TOTAL NUMBER OF OBSERVATIONS

150

355

0.0010.00100.0100 

0.7

88

88

ALAI

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

ALL HOURS (LS.T.) APR

> PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

98.6 4.66 83.8 85.6 89.6 89.7 95.6 96.5 4.66 8.66 8.66 6.66 88.8 7.06 0.0010.0100.0100.0100.0100.0100.0100.00100.0 0.0010.0010.0010.0010.0010.0010.0016.66 0.0010.0010.0010.0010.0010.0010.0010.0016.66 0.0010.0010.0010.0010.0010.0010.0010.0010.00 6.66 98.6 4.66 6.66 82.5 85.6 88.8 95.6 96.5 4.66 6.66 85.3 89.7 8.66 82.5 83.8 89.1 89.1 89.6 40.06 8.66 1 82.5 89.6 4.66 85.6 88.8 89.7 95.6 6.66 83.2 89.1 89.1 96.5 8.66 6.66 82.5 85.3 98.6 83.8 7.06 4.66 Al 6.66 98.6 4.66 82.5 83.2 83.8 85.6 88.8 1.68 89.6 96.5 4.66 8.66 8.66 6.66 89.1 7.06 82.5 82.5 92.6 92.6 89.7 2 ٨I 82.5 82.5 85.6 89.6 6.66 6.66 40.4 9.86 4.66 89.1 83.2 85.3 89.7 96.5 8.66 83.8 88.8 89.1 4.66 8.66 ٨i 82.5 89.6 82.5 96.5 98.6 4.66 4.66 8.66 83.2 85.3 85.6 88.8 89.1 92.6 92.6 92.6 8.66 83.8 89.1 6.66 6.66 7.06 6.66 6.66 6.66 89.7 ۸۱ 98.6 89.6 4.66 8.66 83.2 85.3 88.8 88.8 89.1 8.66 82.5 82.5 7.06 4.66 83.8 85.6 89.7 96.5 96.5 89.1 89.1 ٨١ VISIBILITY (STATUTE MILES) 9.68 4.66 82.5 82.5 83.8 85.6 98.6 4.66 8.66 6.66 89.1 83.2 85.3 89.7 7.06 8.66 85.6 95.6 4.66 4.66 8.66 6.66 83.8 89.1 89.6 96.8 98.6 8.66 6.66 6.66 6.66 6.66 83.2 85.3 88.8 88.8 90.7 6.66 82.5 82.5 82.5 82.5 89.1 89.7 96.5 9.86 85.6 89.6 89.6 89.7 95.6 95.6 8.66 8.66 83.2 85.3 8.66 82.5 83.8 6.66 8.66 89.1 8.66 7.06 99.3 1.66 8.66 8.66 8.66 8.66 89.1 7.66 99.8 2 8.66 85.6 89.1 98.6 86.66 66.3 8.66 8.66 8.66 90.7 8.66 89.1 96.4 96.5 8.66 8.66 8.66 83.8 89.7 99.7 88.8 8.66 1.66 ٨I 82.5 89.1 89.1 89.6 86.66 7.06 98.5 66.3 9.66 88.8 88.8 95.6 7.66 1.66 83.8 85.3 85.3 85.6 89.7 9.66 29.7 7.66 7.66 1.66 .66 ۸۱ 89.68 95.6 83.2 4.96 98.4 82.5 82.5 89.1 89.1 7.06 3.66 4.66 99.5 99.5 8.66 85.6 3.66 4.66 66.5 99.5 66.5 60.8 83.8 89.7 99.8 Al 89.0 82.4 83.4 83.7 89.5 9006 1.66 6.66 99.3 66.3 82.4 83.1 85.5 89.6 6.96 66.3 6.66 66.3 65.26 98.3 8.66 66.3 66.3 88.8 89.0 99.1 88.7 ۱۸ ۱۸ 82.2 89.3 89.3 0.96 88.8 98.8 98.8 82.2 85.3 88.4 90.3 92.3 97.9 7.86 98.86 98.8 98.8 98.8 7.86 98.8 98.86 98.86 98.8 98.8 98.86 98.8 AI 38.3 41.0 3.44 4.44 40.45 37.5 37.8 39.5 9.04 41.1 41.3 4.44 40.44 4.45 44.4 4.44 4.44 37.5 39.3 8.04 8.04 44.4 44.4 3.55 4.44 42.2 44.4 43.7 NO CEILING

2500

1500

AI AI

900

AI AI

88

AIAI

88

AI AI

88

ALAI

4500

3500

AI AI

0

TOTAL NUMBER OF OBSERVATIONS

1200

28.0

SMOS DIRNAVOCEANMET

80

AI AI

88

AI AI

11706

VI VI 0081 0005 0005

¥ 20000

(FEET)

1200

000 000 000

AI AI

8000

2000

ALAI

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

HOURS (LST.) MAM

239

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL NUMBER OF OBSERVATIONS

155

0

(

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04 HOURS (1 S.T.) MAN

1943

ON IN							VISI	VISIBILITY (STATUTE MILES	NTUTS MILE	SS						
(FEET)	5	9 11	S)	AI AI	E Al	1 2%	N AI	VI 2/1	VI 3.		VI %	*	N %	≥ 5/16	N N	0 11
NO CEILING			74.8	75.5	70.1	76.1	76.1	76.1	76.1	76.1	.0	9	76.1	76.1	76.1	76.1
> 20000				80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
				80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
0009L Z				80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81,3	81.3	81.3
			1	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
7 12000			-	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
			1	81.9	82.6	82.6	82.5	82.6	95.6	82.6	82.6	82.6			82.6	82.6
000	3.9	81.3		81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
				91.0	91.6	91.6	91.6	91.6		91.6	91.6	-	•	91.6	91.6	91.6
200				91.6	65.3	92.3	6.26	6.26	92.3	92.3	92.3	6.26	92.3	92.3	92.3	92.3
1			_	91.6	92.3	92.3	92.3	92.3	•	92.3	92.3	-	92.3		92.3	92.3
2000				91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	65.3		85.36
1				91.6	65.3	92.3	6.26	92.3	92.3	92.3	92.3			65.3	92.3	92.3
1 1				91.6	92.3	92.3	92.3			92.3	92.3	92.3	92.3	92.3	92.3	92.3
			1	92.3	6.26	65.6	6.26	6.26		92.9	65.6	92.9	3.	65.6	65.6	95.9
300				92.3	6.76	6.26	6.26	6.26	6.26	92.9	92.9	6.26	92.9	92.9	65.6	95.9
1			1	95.8	1.96	1.96	96.1	100	96.1	96.1	96.1	1.96			1.96	96.1
200				96.8	4.16	97.4	4.16	97.4	4.16	4.74	97.4	97.4	97.4	97.4	97.4	4.16
1			1	96.8	4.76	4.16	4.16	4.76	4.76	4.16	4.16	97.4	97.4			97.4
1500				8.96	1.86	98.7	1.86	7.86	1.86	7.86	98.7	98.7	98.7	98.7	48.7	98.7
					98.7	78.7	98.7	98.7	68.7	186	98.7	1.86	98.7	98.7	7.86	98.7
1000				98.11	0.00	00.00	00.00	00.00	00.00	0.00	00.0	100.0	0	10000	0.00	000
		1.96	4.16		0.00	00.00	0.00			0.00	0.001	100.0	0	0.001	0.001	0000
8			4.76	98,1	0.00	00.00	00.00	00.00	00.00	0.00	0000	100.0	0	0.001	00.001	0.00
			4.16	98.1	0.00	0.00	0.00	•	0.00	0.00	0.001		0.001	0.001	•	0000
9		96.1	97.4	98.11	0000	00.00	00.00	00.00	00.00	0000		100.00	100.0	100.0	0.001	0000
			4.16		0000	0.00	00.00	00.00	00.00	0.00	.0	0.001		10000		0.00
7 400		1.96	97.4	98.1	0.00	0.00	00.00		00.00	0.00	0000	100.0	0000	100.0	•	0000
	5.8		4.76		0.00	00.00	00.00	00.00	00.00	0.00	0.00	100.0	0.001		0.001	0000
700		96.1	97.4	98.11	0.00	00.00	00.00	00.00	00.00	0000	0000	0.001	0000	0.001	00.00	000
	3.8		97.4	98.1	0.00	00.00	0000	10.00	00.00	0.00	0.00	10000	0.001	0000	0.00	0.00
٥		96.1	97.4	98.1	0.00	00.00	0.00.	00.00	00.00	0.00	00.0	100.00	100.0	0.001	0000	00.00

0

TOTAL NUMBER OF OBSERVATIONS

155

0

SMOS DIRNAVOCEANMET

0

0

11706 STATION

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 HOURS (1.5.T.) MAY

210

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	5 1	۰ ۸۱	80 11	4		≥ 21/4	2 4	¥1 ¥	¥1 ¥	AI .	% Al	*	% Al	≥ 5/16	AI N	٨١
NO CEILING	200	64.5	66.5	66.5		17.1	67.1	67.1	67.1	67.1	67.1	67.1		67.1	67.1	67.1
7 20000	00	16.	18.1			100		70.7		8	•	0	1001		78.7	78.7
18000	4.80	16.1	1.8.1	78.1		1001	78.7	70.7		78.7	1001		•.	78.7	1001	78.7
	68.4	76.1	78.1	78.1	8	18.1		78.7	9	•	•		18.1	78.7	•	78.7
	4.89	76.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7		78.7	78.7	78.7	78.7	78.7	78.7
× 12000	4.89	76.1	78.1	78.1	8	78.7		78.7	8	8		8	8.	8	8	78.7
	69.7	77.4	79.4	4.07		•			0		80.0	0	0	.0	0	80.0
000	69.7	77.4	19.4	19.4	0	0	80.0	80.0	0	0	•	0	80.0	0		80.0
	75.5	85.	88.	88.4	6			6	6			6	6	6	6	89.0
700	76.1	86.		89.0	89.7	89.7	89.7			89.7	89.7	89.7	89.7	89.7		89.7
1	76.1	86.	89.	89.0	6			6	5	6		6	6	6	6	89.7
2000	76.8	87.	90.	80.3	-	-		-	-	-		-	-	:	-	91.0
	76.8	87.	90.	90.3	-			-:	-	-		-	-	-	-	91.0
141	76.8	87.	90	90.3	-	91.0	91.0		:	-		-	91.0	-		91.0
	77.4	68	92.	92.3	2			~	2	~		2	2	2.	2.	
300	77.4	.68	92.	65.3	2	2.	6.76	2.	2	2		2.	2	2	92.9	92.9
1	77.4	91.	94.							.9		. 9	96.1	9		1.96
200	78.1	92.	96	8.96			97.4		-				97.4	4.26		97.4
1	78.1	92.	96	4.16		98.1	98.1	98.1	8		98.1	1.86	98.1		1.86	1.86
1500	78.1	93.6		98.7	99.4		4.66	30.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66
		•	97.	7.86	6	4.66	4.66	4.66	6		4.66	4.00	4.66		4.66	4.66
1000			97.			4.66	4.66	4.66		4.66	4.66	4.66		4.66	4.66	4.66
			97.	7.86	0	4.66	•		6	.6	4.66	. 6		6	4.66	4.66
08 AI	78.1				6		0.001	100.001	•		0.001	00001	00.00	00.00	0000	0.00
	78.1			68.7		4.66	0.001	100.001	0	0.001	0.001	0.001		0.001		0.00
% AI	78.1				6	4. 66	100.0	•	•	0	•			0		00.00
	78.1			1.86		4.66		100.001	0	•	0.001			0	0.001	0.00.
400	78.1				4.66	4.66	100.0	100.001	•	0	0000	0000	00.00	0000		0.00
	78.1			48.7		4.66	10000	100.00	•	0000	0.001	•		0000	00.00	0000
700	78.1	93.6	97.4	98.7		99.4	10000	100.001	00.00	0	•	0000	0000	0	0000	0000
		93.6	5.16	6.86	4.66	7.66	•	100.00	•	00001	0.001	0000	00.00	0000	0000	0000
0	78.1		97.4	-			0	100.001	•	0	•	0.001		0		0000

0 0 0

TOTAL NUMBER OF OBSERVATIONS

155

SMOS DIRNAVOCEANMET

0

87.7

87.7

88.4

#### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CUANTANAMO BAY, CUBA

E

MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE

NOURS (LST.)

71.6 71.6 11.6 71.6 ٨١ 11.6 71.6 71.6 2 5/16 2 ٨I

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(FEET)

VISIBILITY (STATUTE MILES)

(FROM HOURLY OBSERVATIONS)

71.6 74.8 71.6 71.6 74.8 9.1 11.6 1.6 14.8

71.6

71.6

71.6

71.6 71.6

71.6

71.6

71.6

71.6

64.5

VI VI 00081 00081

11.6

69.7 69.7

11.6

1.6

71.6

9.

71.6

1.6

11.6 71.6 9.1 71.6 8.4/

11.6

71.6

71.6

71.6

71.6

.. 9.1

71.6 71.6

61.3 ٨١

> 61.3 9.

59.4

NO CEILING

× 20000

61.3

61.3

61.3

85.8 85.8 85.8 74.8 87.7 88.4 71.6 4.88 74.8 85.8 85.8 87.7 71.6 88.4 11.6 74.8 87.7

85.8 85.8

85.8 85.8 85.8

87.7 87.7 87.7

74.8

74.8

74.8 74.8

74.8

74.8 85.8

14.8 85.8 87.7

74.8

74.8

72.9

88.8

83.9 85.8

74.8

74.8

14.8

72.9

67.7 67.7

9000

MIM

0

74.8

74.8

8.7/

74.8

74.8

74.8

74.8

74.8

71.6

71.6

71.6 71.6

71.6

71.6

71.6

71.6

69.7

64.5

Y 1400

71.6

71.6

71.6

71.6

71.6

9.1

71.6

11.6

6.06 90.3 92.3 90.3 6.06 2.46 6006 90.3 92.3 92.3

6.06

90.3 6.26 2.46

60.3

6.06

90.3

6006

6.06 80.3

6.06

90.3 90.3 90.3

90.3

90.3

6.06

90.3 90.3

90.3

88.4

6006 65.3

90.3

90.3

90.3

90.3

8.06

90.3

90.3 90.3 90.3 92.3 34.2 98.1 4.66

90.3

8003

88.4

78.1 78.1

2000

AI AI

0

88.4

88.4

86.4

88.4

88.4

4.88

88.4

88.4

4.88 90.3

86.5

8.91

87.7

87.7

84.8

76.8

8000

AI AI

0

76.1

87.7

87.7

87.7

6.06

90.3

8009

92.3 2.46 4.66 4.66 34.5 98.1 4.66 98.1

4.66

4.66

4.66

4.66 4.66

4.66

4.65

4.66

1.86

98.1

98.1

7.66 7.66

4.86 4.66

4.56

4.66

4.66

4.66

4.66

4.66

4.66

4.66

4.66

4.66 4.66

8.96

9.96 81.9 96.8 96.8

81.9

1200

MIM

0

8.96 8.96

81.9

8 8

AI AI

8

96.8 8.96

81.9

88

AI AI

81.9

8.96

81.9

80

ALAI

DIRNAVOCEANMET

96.8

81.9 81.9

88

AI AI

0

96.8

81.9

81.9

88

MIAI

4.66

4.66

4.66

7.66 4.66

4.66

81.9 96.8

1500

11 11

O

1.86

1.86

98.1

98.1 4.66

34.5

2.46

34.5

3.46 98.1

2.46

2.46

2.46 1.86 4.66

92.3

62.5 8.96

61.9

81.9

2500

AI AI

92.3 2.46

92.3 90.3

6.06

4.61 80.7

3000

MIN

0

88.4

78.1

4500

MIM

92.3

92.3

92.3

92.3

98.1 4.66

1.86 4.66

4.66

4.66 4.66

7.66

4.66 4.66

4.66

00.00100.00100.00

155

TOTAL NUMBER OF OBSERVATIONS

4.66

4.66

7.66 7.66 7.66 7.66 4.66 7.66

9.66

4.66 4.66 0.0010.00

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MAY

1000

13 HOURS (LST.)

CEILING (FEET)	9 1	9 Al	νς ΑΙ	AI	N AI	1 2%	V 2 Y	VISIBILITY (STATUTE MILES	NTUTE MILE	(S) VI	% Al	*	N ×	5/16	× Al	N AI
NO CELLING	-		63.2	63.2	50	50	24	63.2	69		193	3	63.2			63.2
> 20000	68.4	75.5		-	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
	68.4	5	77.4	77.4			1.	77.4			-	77.4	77.4	77.4		77.4
2 16000			77.4	77.4	77.4	77.4	77.4	77.4	77.4			77.4	77.4	77.4	77.4	77.4
	0.69	-	78.1	78.1		78.1		78.1				78.1				78.1
12000	69.7	77.4	79.4	79.4	4.64		19.4	79.4	79.4		19.4	•	19.4		79.4	79.4
	73.6	81.	*	83.9			3		6	3	3			-		
000	73.6	80		83.9		63.9	83.9		3	•			3	3		83.9
1	80.0	91.	3	2	6.26	65.6		95.9		3		6.26		3	65.6	
7000	80.0	91.		3		5			3	=	3	3		3		
1	80.0	92.	*		*		4 .	*	*	*				*		
2000	80.0	9	*		*	4	2.56		*	*	*	4		4		34.5
	80.0	92.	*	2.46	4		. 4	*	4	*	4.			4.		
4000	80.7		3		3	15	95.5		3	5	5	3		2		95.5
	80.7	93.	10	95.5	3	150	5	5	95.5	5	5	3		5		
3000	81.3	. 76				0	96.1			9	.0			9		
1		1	7	4.6	-	-		1.86	8	8	*	1.86		8		98.1
7000		96.	1.86	98.1	98.1	98.1	98.7	98.7	98.7		7.86	7.86	98.7	8	7.86	7.86
	82.6	.96	8	1.86		002		7.86	8	8	7.86	28.7	7.86	00		98.7
1300	82.6	_		98.1			7.86	48.7		8	7.86	98.7	98.7	8		98.7
	82.6	96	8	98.1	8	8		48.7	8	00	48.7	48.7		8	7.86	98.7
000		96.			8		4.66	4.66	6	6	4.66					4.66
	82.6	8.96	8	68.7	98.7		.6	4.66		6	99.41	00.00		0		0.00
800	82.6	96.	8		00	80	4.66	4.66	4.66	6			00.00	100.00	10.00	00.00
	95.6	0	8		1.86	98.7	4.66	\$ . 66	4.66	•	•	00.00	0	.0	10.00	0000
% A	82.6	96.	8			*	4.66			6		ò		0	00.00	0000
	82.6	96.		48.7	7.86	98.7		6	4.66	4.66	4.66	00.00	00.00	0	00.00	0.00
400	82.6	96.	*	80	98.7	00	4.66			6	6	00.00		100.00	00.00	0.00
				98.7	1.86	œ		4.66	4.66		99.41	00.00		0	10.00	0.00
700	82.6	96.	98.7			8	4.66	4.66				0.00	0.00	10000	00.00	0000
9 2		96.		98.7	98.7	98.7	4.66	4.66	4.66	4.66	4.66	00.00	00.00	100.00	00.00	0.00
٨١		0	98.7			7.86		4.66		1	4.66	00.00	00.00	10000	00.00	000

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16 MAY

1000

0

CEILING							2		(STATION WITTE)							
FEET)	5	۵ ۸۱	N Al	VI 4	e Al	1 2%	N N	٧١ %	٧١ ٪	Ā	% Al	* Al	N N	≥ 5/16	NI NI	0 1
CEILING	-	42.6	3		3.			3		663	3	3.		13	43.9	
20000	61.3	69.7	0	-		-	-	-:		-	71.0			71.0	71.6	71.6
18000		69.7	0	-	-	-	-	-	-:	-	•	-		-		-
16000		69.7	0	-	-		71.0	-		71.0			71.0	71.0	71.6	
14000		70.3	-	-		-	-	-	-	-		-		-		
12000	63.5	71.6	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.6	73.6
10000		73.6	;		*	4			+	;		*		4	5	
0006		74.2		5		5		3	3	1/2/2	75.5	5		5	76.1	76.1
8000		82.6								3.		3		3	*	
2000		85.8	86.5	87.1		-		87.1			-		2	-	87.7	87.7
0009		86.5	-	1.		7.	87.7	-		1	-	87.7		-		
2000		87.1	-	88.4	88.4	88.4		88.4	*		88.4	88.4	88.4		89.0	89.0
4500		89.0		-		-	-	-	-	-	-	-	1	-		
4000		89.7	~	91.6	91.6	91.6	9.16	91.6	91.6	91.6	91.6	-	91.6	91.6	92.3	92.3
3500		8006	-							2	3	3		2	2.	
3000		92.3	3	94.2		*				94.2				94.2		8.46
2500		8.46	4.16	98.1	1.86	98.1		1.86	98.1		1.86	98.1	8		7.86	7.86
2000	-	95.5	98.1			00					8		•		4.66	4.66
1800		95.5						8			7.86		8	7.86	4.66	4.66
1500	-	95.5	1.86	7.86	7.86	7.86	1.86	98.7		7.86		28.1	4.66		0000	0.00
1200	•	8.56	1.86	48.7	68.7		7.86	98.7	8		7.86	1.86	6	4.66	0000	0000
1000	-	95.5	98.1		*			8	7.86				4.66	4.66		0.00
006		6.66	1.86		286	8	7.86	9	8		98.7	98.7	6	4.66	0000	0.00
800	81.9	98.8	98.1	7.86	7.86	18.4	7.86		7.86	7.86	1.86	8	4.66	99.4		0.00
200	•	95.5				8	1.86	8.		. 8	1.86	69.7	6	99.4	0.00	0000
909	-	95.5		8	7.86			8					4.66	4.66	0.00	0.00
200		95.5		68.7		æ	7.86	8		8	48.7	48.1	6	4.66	0	0000
400	-	8.56			7.86	7.86				*		28.7	4.66	99.4	00.00	0.00
300		95.5		7.86	7.86		7.86	8	48.7	98.7	1.86	486	4.66	40.66	0000	0000
200	81.9	95.5	98.1		68.7		68.7	98.7	-	98.7	68.7		4.66	99.4	00.00	00.00
8	81.9	95.5		1.86	1.86	7.86	7.86	48.7	1.86	7.86	1.86	28.1	4.66	4.66	0000	0.00
•																

TOTAL NUMBER OF OBSERVATIONS

155

100

DIRNAVOCEANMET , SMOS

30

9221

0

0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MAN

19 HOURS (1.8.7.)

2 20

-																
CEILING							VIS	VISIBILITY (ST	(STATUTE MILES)	ES)						
(FEET)	01 ≤	۸I	S)	4	N AI	1 2%	N N	V 7	YI 71	Ā	% Al	*	Z Al	≥ 5/16	NI NI	N O
D CEILING	3.	8	39.	6	6	6	6	6	6	9	6	6	6	6	6	39.
≥ 20000				65.2		65.2		2	3		3	2	5	5	8	65.
> 18000	0	3.		5	3	3			5	5		5	5.	5		65.
16000		3			5			3	5		5	5	3	5	3.	65.
> 14000	0	4		5	3	3	:	5	3	3	5	3	5	3.	.5.	
12000						3			3			3	3	15		65.
7 1000	-	:		6	6	6	6	6	6	6	6	6	6	6	6	
800	21.9	4.89	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	200
1	5	6	-	-	:	-	:	-	:	-	-	-	:	-		81.
7000		0				3		3	9		3	3	3	3		83.
1	100	:		*	3	*	*	3	3	*	4	*	*	*		84.
2000				86.5			. 9		9		9	.0	•	.9		86.
1		6		-	-		-	-	2	2	2	7	7	-		87.
1 4	9	3	-	-	-	-		-	-	-	-	-	7.	-		87.
1500	0	-		90.3	0		90.3	0	0		600	0	0	0	90.3	
3000	-		-	-	:	-		-	-	-	-	-	:	-		91.
	80	2	.0	.0		6		0	0	9		.0		.0		
2000	6	*		98.1	98.1			8	8		3			8	98.1	
1	6	4	8	00	8	90	8	8	30	8		8	8	8		
1500	6	*	*	00	98.1	98.1	98.1	8	98.1			8	8.	8		
-	6	4		8	8	0			8	8	8	8		. 8		98.
1000	6	5	7.86		8	0	7.86	8	8	.0		0	100.0	0		100
	6	3			8	8	. 8	8	8	.0	0	0		0	0.001	100
8	6					8	. 8	8	8	0	0	0	0	0		100
	6	5			8	8		8	8	0	0	0	0	0		100
8	0				8		8	8	98.7	•	0	0	0	0	0.001	1001
	6	5			8	00	. 8	98.7	7.86	0.001	0	0	0		0.001	100
9		5			8				7.86	0.001	0	0		0	100.0	100
	0	5	98.7		98.7		8	98.7	7.96	0.001	0	0		0	10000	100
30		5	98.7		98.7		7.86		98.7	0.001	0	0		100.0	100.0	100
	6	3	98.7	98.7	7.86	98.7	98.7	68.7	98.7	0.001	0.001	0	0.001	0	0.001	100
	6	S	98.7	-			98.7	98.7	98.7	100.0		0	100.0	0	10000	100

0

TOTAL NUMBER OF OBSERVATIONS

155

2

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA 11706 STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 HOURS (1.5.7.) MAY

Ē

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	(5)						
(FEET)	5	9 2	8	1 1	e Al	≥ 2%	14	×1 ×1	7 1 7	1	% \	*	% Al	> 5/16	۷I	0 7
IO CEILING	2.6		0.69	0.69	0.69		0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
≥ 20000	3.9	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
18000	3.9		77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
16000	3.9	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
	3.9		77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	71.4	77.4
≥ 12000	3.9	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
1	3.9		:	80.0	80.0	0	80.0	80.0	80.0	80.0	80.0	80.0	80.0		80.0	80.0
000	3.9	78.7	•		80.7		80.7	80.7		80.7	80.7	80.7	80.7	80.7		80.7
	3.9			89.7	69.7		69.7	89.7				89.7	89.7			89.7
7000	3.9	87.7	•		0	90.3	90.3	6.06	90.3	6.06	600	80.3	90.3	90.3	6.06	90.3
	3.9		6006	80.3	90.3		0	60.3					90.3			90.3
2 2000	3.9		•	90.3			8.06			ò		90.3	90.3			80.3
1	3.9		•	90.3	6003		0					60.3	90.3			90.3
4000	3.9	87.7	8006	8006	ò		6.06	60.3	90.3	0		90.3				90.3
1	3.9	89.7	92.3	92.3	65.3		2.	92.3		92.3	92.3	92.3	92.3	92.3	92.3	92.3
3000	3.9	90.3	•	65.26	92.9	92.9	92.9		92.9	2		6.26	92.9			92.9
	3.9	93.6	1.96	96.1			1.96	1.96	1.96	1.96	1.96	1.96	1.96	96.1	1.96	96.1
2000	3.9	94.8	98.1	98.1	98.1		98.1	98.1	98.1		98.1	98.1	98.1		1.86	1.86
1	9.6	94.8	98.1	98.1	98.1		98.1	98.1	98.1	98.1	1.86	98.1	98.1	98.1	98.1	98.1
1500	3.9	8.46	98.1	98.1	98.1	98.1	98.1	98.1		98.1	1.86	98.1		98.1	98.1	98.1
	3.9	8.76	98.1		98.1	98.1	1.96	1.86		98.1	1.86	1.86		98.1	1.86	98.1
1000	3.9	95.5	4.66	4.66	4.66	4.66		4.66	4.66		4.66	4.66	4.66	4.66	4.66	4.66
	3.9	95.5	4.66	4.66	4.66		4.66	4.66	4.66	4.66	4.66		4.66	4.66	4.66	4.66
80	3.9	95.5	4.66	4.66	4.66	4.66	4.66	4.66	4.66	00.00	0.00		00.00		00.00	0.00
	3.9	95.5	4.66	4.66	4.66	4.66	4.66	4.66		0.00		0.001	0.00	100.00	00.00	0.00
009	3.9	95.5	4.66	4.66	4.66	4.66		4.66	4.66	0.00	0.00	00.00		100.00	0000	00.0
	3.9	95.5	4.66	4.66	4.66	4.66	4.66	4.66		0.00			0	100.00	00.00	0.00
700	3.9	95.5	4.66	4.66	4.66	4.66	4.66	4.66	4.66	0000	00.00			100.00	00.00	00.00
		95.5	4.66	4.66		4.66	4.66	4.66		0.00	•		0.001			0.00
× 200		95.5	4.66	4.66	4.66	4.66	90.4	4.66	99.4	0.00	00.00	00.00	0	0	0000	00.00
8	3.9	95.5	4.66	6			4.66	4.66		.0	•					0.00
٨١	•	95.5	4.66	40.66	4.66	4.66	4.66	7.66	99.4	0.00	0.00	0.00	0.00	0.00	0.00	00.00

0

0

TOTAL NUMBER OF OBSERVATIONS

155

200

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706 STATION

1550

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MOURS (L S T MAY

1000

98.3 97.0 91.5 93.5 93.5 98.4 98.8 0.0010.0016.66 0.0010.0016.66 0.0010.0016.66 0.0010.0016.66 0.0010.0016.66 0.0010.0016.66 0.0010.0016.66 0.0010.0016.66 99.7 91.1 ٨١ 76.5 4.64 9006 4.86 75.9 79.2 91.1 91.5 92.6 92.7 6.86 98.8 8.66 2.66 89.4 89.8 96.9 97.0 75.9 98.8 98.9 76.1 88.3 4.66 99.4 ٨I 76.5 79.1 79.4 91.0 93.4 98.2 75.8 75.8 76.1 88.2 89.4 89.8 91.4 98.3 98.7 90.5 75.8 1.64 79.4 4.68 91.0 91.4 9.66 6.66 6.66 88.2 93.4 98.2 6.66 6.66 6.66 76.1 8.68 6.96 1.66 90.5 98.8 98.3 98.7 Al 91.0 79.4 75.8 98.8 8.66 76.1 76.5 79.1 88.2 4.68 95.6 95.6 6.96 98.2 6.86 7.86 9.66 89.8 91.4 93.4 99.5 8.66 8.66 99.8 99.8 99.8 8.66 8.66 8.66 90.5 AI 89.8 98.6 75.8 19.4 4.68 0.16 6.86 75.8 88.2 4.66 66.6 8.66 8.66 99.8 1.64 6.96 98.2 8.66 8.66 76.1 76.5 99.5 8.66 4.16 6.06 8.66 % N 75.8 76.1 79.1 19.4 98.3 98.6 30.66 8.68 8.66 5.66 8.66 5.66 8.66 5.66 75.8 88.2 91.0 91.0 91.4 91.4 95.6 93.4 93.4 98.7 99.3 99.4 99.4 99.4 99.5 8.66 5.66 76.5 76.5 89.4 90.5 6.96 6.96 98.2 98.2 8.66 8.66 8.66 8.66 ۸I VISIBILITY (STATUTE MILES) 99.5 4.66 98.0 75.8 76.1 16.1 88.2 4.68 89.8 90.5 95.6 98.3 86.66 79.4 7.86 7 1 91.0 91.0 79.1 66.6 62.3 75.8 76.5 19.4 93.4 68.3 99.5 76.1 4.68 89.8 90.5 98.2 98.6 98.6 98.5 4.66 4.66 66.2 99.3 66.8 75.8 66.8 95.6 95.6 6.96 6.96 6.96 99.5 99.5 99.5 99.5 89.5 99.5 88.2 ٨I 75.8 76.1 6.86 89.8 79.1 98.2 99.3 19.4 88.2 88.2 90.5 60.66 75.8 76.5 76.5 89.4 89.4 93.4 93.4 93.4 60.66 AI 92.6 92.6 75.8 75.8 79.4 6.06 91.0 4.66 4.66 98.2 66.3 40.66 4.66 86.69 4.66 76.1 98.2 4.66 4.66 1.64 4.66 2 2% 86.68 91.0 98.6 75.8 1.64 98.5 66.3 66.3 4.68 6.96 66.3 66.3 90.5 2.86 98.6 66.3 98.6 99.0 99.3 75.8 76.1 76.3 76.5 79.4 66.3 66.6 75.9 76.1 88.2 66.3 AI 0.86 0.64 89.0 89.2 93.2 46.7 98.2 98.3 0.66 9.86 0.66 9.86 79.2 89.6 0.66 0.66 88.1 98.1 0.66 0.66 98.6 99.0 0.66 90.3 8.06 91.2 95.4 0.66 75.7 75.7 62.1 4 90.1 92.3 78.8 1.16 986 75.7 0.86 98.6 75.5 0.64 87.9 4.68 61.6 98.6 98.6 30.5 75.5 89.0 91.1 97.7 98.6 88.6 90.7 ٨I 95.7 77.6 87.4 95.1 95.2 95.2 74.3 74.5 87.1 95.1 98.7 95.7 95.7 37.0 74.3 74.3 74.9 77.3 86.0 88.2 98.7 95.7 95.7 6009 AI 37.2 37.4 43.5 43.8 45.5 38.9 43.0 43.5 44.2 44.6 1.95 28.8 38.7 0.44 45.9 46.1 46.1 46.1 46.1 46.1 46.1 1.94 46.1 46.1 46.1 46.1 46.1 46.1 46.1 2 NO CEILING 80 18000 Y 1 1 2000 (FEET) > 20000 00 % 800 7000 3000 88 88 5000 4500 4000 2000 1500 88 88 88

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TOTAL NUMBER OF OBSERVATIONS

1240

SOWS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DI HOURS (LST.) NON THE

							VISI	BILITY (ST.	VISIBILITY (STATUTE MILES)	ES ES						
(FEET)	2	**	^	^	^	V 214	,	4	7		× A	× A				^
		.			1	5			*		*	4 1	2 1	01/6 =	*	2
	.7		74.7	75.3		•	76.0		76.0	76.0		•		76.0		76.0
≥ 20000	1.3		88.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
N 18000	1.3		0.88	88.7	89.3	89.3	89.3	89.3	89.3		89.3		89.3		89.3	89.3
16000	1.3		88.0	88.7	89.3	89.3		89.3	89.3	89.3		89.3	89.3	89.3		89.3
	1.3		88.7	89.3	90.0	0.06		0	90.0		0.06	0.06	90.0	90.0	0.06	90.0
17000	1.3	86.7		0.06		90.7			7.06	0	7.06	4006	90.7	0	0	
	1.3		50.7	91.3				2		2		92.0	92.0	92.0	92.0	92.0
8	1.3	88.7		2	92.7	92.7		92.7	92.7	92.7	92.7	2	92.7	2	2.	92.7
1	1.3	91.3	96	1.76	65.3	5	95.3	95.3	95.3	95.3		95.3	95.3	95.3		95.3
700	1.3	92.7		0.96	7.96	7.96		7.96	1.96	7.96		7.96	96.7	96.7	7.96	96.7
1	1.3	92.7	95.	0.96	1.96	96.7	1.96	96.7	96.7		1.96	7.96	7.96	7.96	1.96	96.7
2000	1.3	92.7	0	0.96	1.96		7.96	96.7	7.96	7.96	7.96	96.7	7.96		1.96	7.96
1	1.3	92.7	0	0.96	1.96	1.96	7.96	7.96	7.96		1.96	1.96	7.96	7.96	1.96	96.7
141	1.3	92.7	0			7.96	1.96	96.7	96.7	7.96	7.96	96.7	96.7	96.7		7.96
1	1.3	93.3	C.		97.3	87.3	97.3	97.3	97.3	97.3	97.3	87.3	97.3	97.3	97.3	97.3
300	1.3	0.46	96	97.3	0.86	98.0		8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
	1.3	4.7		0.86	1.86	7.86	7.86	98.7	7.86	7.86	98.7	48.4	7.86	98.7	7.86	98.7
500	1.3	96.0	98.7	6	100.001	00.00	0.00	0.001	0000	0.00	0.001	10000	100.0	100.001	100.001	00.00
1	1.3	96.0		66.3	0.00	00.00	0000	0.00	00.00		0.001	0.001	0.001	100.00	0.00	000
1500	1.3	0.96		99.3	100.001	0.00	0.00	00.00	100.00		0.001	0.001	10000	100.001	100.001	0000
	1.3	96.0		99.3	00.00	0.00		0.00	0.001	0	0.001	0.001	0.001	100.00	00.00	00.00
8	1.3	96.0		99.3	10.00	00.00		00.00	100.00			10000	100.0	100.001	100.00	0000
	1.3	96.0	6	66.3	0.001	00.00	0.00	00.00	0.001	0000	0.001	0.001	100.0	0.001	0000	000
8	1.3	0.96		99.3	100.001	00.00		00.00	0.001	0.00	100.0	10000	100.0	100.001	100.00	0000
	1.3	96.0	1	66.3	0.00	00.00	0.00	0.00	0.001		0.001	0.001	100.0	100.0	00.00	00.00
8	1.3			99.31	00.00	00.00		00.00	100.00	ċ		0.001	0.001	100.00	100.001	0000
	1.3		0	66.3	0.00	00.00	0.00	00.00	00.00	0.00	0.001	0.001	0.001	0.001	0000	000
N 40	1.3	0.96		99.31	100.00	00.00	0000	00.00	00.00	0.00	0.001	0.001	100.0	100.001	0.001	0000
	1.3	96.0	0	66.3	100.001	00.00	0000	00.00	0000	0.00	0.00	0000	100.0	100.00	0.001	0000
× 200	1.3	96.0		99.31	100.001	00.00	0.00	00.00	100.00	0.00	0.001	0.001	100.0	100.001	00001	000
	1.3	0.96	0	66.3	0.00	00.00	0.00	00.00	0.00	0.00	0.001	0.001	0.001	10000	10.00	000
٥	1.3	96.0		66.3	100001	00.00	0.00	00.00	100.00	0.00	100.0	0.001	100.0	10001	00.001	000

TOTAL NUMBER OF OBSERVATIONS

150

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

800

04 HOURS (1 S.T.)

CEILING							VISI	BILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2	٥ ٨١	8 11	AI AI	e Al	≥ 2%	7	¥1 ¥	71	-	% AI	*	N %	≥ 5/16	VI X	٨١
O CEILING		70.7	2		3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
> 20000	1.3	86.0	87.3	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
18000	1.3	86.0	-	0.88	88.7	68.7	•	88.7	88.7		88.7	88.7	88.7	88.7	88.7	88.7
16000	1.3	86.0	87.3		88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
> 14000	1.3		98.0	88.7		5		6	89.3	6		89.3	89.3	89.3	89.3	89.3
12000	1.3	87.3	88.7	89.3	0.06	0.06	0	0.06	0.06		0.06	0.06	90.0	90.06	0.06	90.06
	1.3	88.7	0.06	40.7					91.3			91.3		-		
000	1.3	89.3	•	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	2	92.0	92.0	92.0	92.0
	1.3	91.3		93.3		5	3		*	\$	*	;	0.46		4	0.46
141	1.3	92.7	0	4.7	6.56	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	65.3	95.3
	1.3	92.7	94.	7.46	65.3	95.3		3	95.3	5		95.3	2	95.3	95.3	95.3
900	1.3	92.7	96	4.7	95.3		98.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	è	95.3
1	1.3	92.7	. 76	1.46	95.3	5		5	5.		5	95.3	95.3	95.3	5	95.3
141	1.3	92.7	94.	7.46	95.3	95.3	•	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
	1.3	92.7	. 46	94.7	95.3	95.3		95.3	95.3		3	95.3	95.3	95.3	3	95.3
00 00 1 A I	1.3	0.76	95.3	0.96	1.96		1.96	1006	1.96	7.96	;	7.96	96.7	1.96	1.96	96.7
1	1.3	96.0	l	78.0	1.86	48.7		98.7		98.7	8	7.86		98.7	8	98.7
500	1.3	96.7	0.86	7.86	66.3		66.3		99.3	99.3	66.3	99.3	99.3		99.3	99.3
	1.3	46.7	0.86	98.7	66.3	66.3		66.3	66.3	86.66	66.3	66.3	99.3	66.66	66.3	99.3
1500	1.3	96.7	98.0	98.7	66.3	6	6		99.3		•	66.3			•	86.3
	1.3	96.7		48.7	66.3	66.3	99.3	99.3	99.3	66.3		86.3	88.3	66.3		99.3
90 1 A1	1.3	46.7	98.7	99.31	10.00	00.00	00.00	00.00	100.00	0.00	100.0	0.001	100.0	100.001		000
	1.3	96.7	98.7	99.31	10.00	00.00	0.00	0.00	00.00		0.001	0.001	0	100.00	00.00	00.0
8	1.3	7.96	48.7		100.001	00.00		0.00	0.001	0.00	0.001	0.001	100.0	10000	0	000
	1.3	96.7	1.86	99.31	10.00	10.00		0.00	0.00		0.00	0000	0.001	100.00	0000	000
8	1.3	96.7	28.7	99.31	10.00	00.00	0.00	00.00	100.00	0.00	0000	0.001	100.0	100.001	0	000
	1.3	96.7			10.00	0.00		0.00	0000		0.00	0.00	0.001	100.00	00.00	00.00
8	1.3	1.96		99.31	0.00	00.00	0.00	0.00	0.001	·	0.001	•		100.00	0	000
	1.3	1.96	98.7	99.31	0.00	00.00	0.00		0.001	0.00	0.001	0.00	0.001	10000	00.00	000
30	1.3	1.96		99.31	10.00	00.00	0.00	00.00	100.00	0000	0.001	0.001	100.0	100.001	00.00	00.0
8	1.3			66.31	00.00	00.00	0.00		0.001	0.00	0.001		0.001	100.001	00.00	00.00
٥	1.3	96.7	98.7	99.31	00.00	00.00	00.00	00.00	100.00	0000	100.0	100.0	100.0	100.00	00.00	00.0

0

TOTAL NUMBER OF OBSERVATIONS

#### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

07 HOURS (1.5.7.) ST.

0

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)							VISI	IBILITY (ST.	VISIBILITY (STATUTE MILES	ES)						
	N 10	9 1	8 41	7.1	14	≥ 2%	7 1	VI %	VI 72	Ā	N N	*	Z AI	2 5/16	× Al	٨١
CEILING		54.		56.7	9	56.7	0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
20000		74.		76.7	76.7	76.7		9		76.7		9	76.7	76.7	76.7	76.7
18000		74.		77.3	77.3	77.3	7.	77.3	77.3	77.3	77.3	77.3	17.3	77.3	77.3	77.3
16000		~	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
4000		75.			78.0	78.0			78.0	78.0	78.0		78.0	78.0	78.0	78.0
12000		76.	79.3	79.3	19.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3		79.3	79.3	79.3
0000		82.		85.3	85.3	85.3	3	85.3	0	85.3	3	5	85.3	85.3	85.3	85.3
0006		30	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3		85.3	85.3	85.3	85.3	85.3
8000		. 76		96.7	1.96	1.96	9	1.96	7.96	7.96			7.96	96.7	46.7	7.96
2000	78.7		97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	6.16		97.3	97.3	97.3	97.3
0009		0		97.3	97.3	97.3		97.3	-	67.3	6.76		97.3	97.3	97.3	97.3
2000			97.3	97.3	61.3	97.3	6.16	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
4500		4.7		97.3	-		:		6.79	6.79	61.3	:	-	97.3	97.3	97.3
4000	78.7			97.3	97.3	97.3		97.3	97.3	97.3	97.3	97.3	97.3	-	97.3	97.3
3500	78.7	64.7		1.	1.		97.3	97.3	97.3	97.3	61.3	97.3	97.3	97.3	97.3	97.3
3000	78.7	4.7	97.3			87.3	1.	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2000	78.7				98.0		0.86	0.86	0.36	0.86	0.86			98.0		
2000	78.7	0.96					7.86	98.7	48.7	98.7			98.7	98.7	28.1	48.7
1800	78.7	0.96		98.7	8			48.7	48.7	7.86	48.7		98.7	98.7	28.7	98.7
1500	79.3			99.3	99.3		6.66	8.66	99.3	66.3	66.3	6	66.3	99.3	88.66	8.66
1200	79.3			99.3	66.3	66.3		8.66	6.66	66.3	66.3	66.3	66.3	86.66	99.3	86.66
1000	79.3	4.96		66.3		86.3	6.66	66.3	6	86.66	66.3	86.3	66.3	86.3	99.3	99.3
006	79.3			66.3	66.3	86.3	•	8.66	6.66	66.3		6	66.3	86.66	99.3	
800	79.3			99.3	66.3	86.3	66.3	99.3	99.3	66.3	66.3	66.3	66.3	86.66	666	99.3
700	79.3	4.96		60.3	66.3	66.66	•	99.3	99.3	66.3	66.3	6	66.3	86.3	866	86.66
900	79.3			66.3	88.3	86.3	6	66.3	99.3	86.66	66.3		99.3	86.3	86.3	99.3
200	79.3	1.96		66.3	•	66.3	6.66	66.3	66.3	66.3	66.3	6	00.00	0.00	00.00	0.00
904	79.3	1.96	66.3	86.3	66.3	8.66	6.66	66.3		66.3			100.001	0.001	100.001	0.00
300	79.3			8.66	66.3		66.3	66.3	66.3	66.3			100.00	0.001	100.00	
200	79.3			66.3	66.3	66.3	6.66	99.3	66.3	66.3	66.66	99.31	100.00	10000	100.001	0.00
8	79.3	2.96	66.3	66.3	6			86.66			66.3	66.3	00.00	00001	00.00	0.00
•	79.3			99.3	66.3	66.3	6.66	66.3	99.3	66.3	66.3		100.00	10000	100001	0.00

0

0

TOTAL NUMBER OF OBSERVATIONS

150

188

SWOS DIRNAVOCEANMET

0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 HOURS (LST.)

200

CEILING (FEET)	5	AI	SS AI	, AI	S AI	2 2%	VISI	181UTY (ST. ≥ 11½	VISIBILITY (STATUTE MILES)	(S) vi	¾ Al	* 1	S.	2 5/16	AI	٨١
NO CEILING	46.7	5	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	_
≥ 20000	66.0	78		80.7	80.7	80.7		6	80.7		80.7	80.7	80.7	0	80.7	-
	0.99	78	80.7	80.7	80.7	80.7	0	80.7		80.7	80.7	80.7	80.7		80.7	
16000	0.99		80.7		0		80.7		80.7		80.7			80.7	80.7	
	66.7	10	82.0	82.0	82.0	82.0	2	82.0		82.0	82.0	82.0	82.0	82.0	82.0	
12000	67.3	80	83.3	83.3		84.0	84.0	84.0		84.0	*		84.0	84.0	84.0	
-	70.7	80		88.0	88.7	88.7		88.7	8	88.7	88.7		88.7	88.7	88.7	
000 AI	71.3	86	89.3	89.3		90.0	0.06		90.0	0.06			90.0	90.0	90.0	
1	75.0	16	•	0.46		94.7	. 4	4.7		94.7		94.7	24.7	94.7		
7000	76.0			0.46	24.7	24.7	1.56	4.7	4.1	7.46	7.46	94.7	94.7	94.7	94.7	
	76.0			0.76	1.46	4.7	1.76	1.76	4.7	94.7	1.46	64.7	7.46	24.7	7.76	
2000	76.0		94.	94.0	1.96	1.76	1.76	4.1	94.7	94.7	94.7		94.7		94.7	
	76.7	92.0	. 56	1.96	98.3	5.		65.3		3		95.3	95.3	•	95.3	
400	76.7			94.7	95.3	65.3	95.3			3	'n			95.3	3	
	76.7			4.7	95.3	95.3	5	95.3	95.3	95.3	5	95.3	95.3	95.3		
3000	78.0			1.96	-	97.3	97.3			97.3	7.	97.3	97.3	-	97.3	
	80.0			48.7	66.3	66.3	6.66	66.66	6	99.3	6	66.3	99.3			_
7000	80.0			98.7	66.3	66.3	6.66	6.66			6		99.3	6	6	
	80.0			1.86	66.3	86.3		8.66	86.3	66.3	66.3	66.3	99.3	66.6	99.3	-
≥ 1500	80.0			98.7	6		8.66			0.001	100.0	0	100.0	100.0	100.0	
	80.0			172.7		66.3		66.3		0.00				ċ	100.0	
1000	80.0				6	66.3	8.66		99.31	0.00	100.0	0	100.0	100.0	100.0	
	80.0			1.86	66.3		66.3	66.3	6	0.001	0.001	10000	100.0	.0	0.001	
008 AI	80.0			7.86	66.3	66.3	66.3	66.66		0.001	100.0	-	100.0	10000	1000	
	80.0			7.86		66.3		66.3	99.31	0.00	100.0	100.0	100.0	0	100.0	-
8	80.0			98.7	66.3	66.3	66.3	66.3			100.0	10000	100.0	100.0		
	80.0		1	48.7		66.3	66.3	66.3	99.31	0000	100.0	100.0	100.0	100.0	100.0	-
14	80.0			98.7	66.3	88.3	66.3	66.3	99.3	0.001	100.0	100.0	100.0	100.0	1000	
	80.0				6	66.3	66.3	66.3		0.001	0.001	100.0		100.0	0.001	
700	80.0			7.86		66.3	86.3	99.3	99.31	0.001	100.0	100.0	100.0	0	100.0	
8	80.0			68.7	6			66.3	99.31	0.00	100.0	0	100.0	100.0	100.0	
0	80.0			98.7	66.3	66.3	66.6	66.3	99.31	0.001	100.0	100.0	100.0	100.0	100.0	

0 0 0 0 0 0 0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

13 HOURS (1 S.T.) SHIP

97.3 98.0 0.96 91.3 0.96 0.96 1096 7.96 88.0 ٨١ 84.0 0.96 6.76 66.3 0.96 83.3 95.3 83.3 0.96 616 98.0 88.0 7.96 91.3 83.3 7.96 ٨١ 84.0 0.96 0.86 0.96 66.3 0.96 97.3 83.3 91.3 95.3 96.7 7.96 91.3 88.0 2 5/16 6.16 98.0 91.3 0.96 0.96 0.96 66.3 83.3 83.3 84.0 95.3 88.0 96.7 1.96 91.3 2 0.96 6.16 0.86 83.3 88.0 91.3 0.96 0.96 0.96 0.96 99.3 99.3 91.3 96.7 96.7 96.7 \* 0.96 84.0 616 6.76 83.3 95.3 0.86 61.3 88.0 96.0 96.0 % M 61.3 84.0 84.0 83.3 91.3 0.96 0.96 97.3 97.3 98.0 86.3 86.3 88.0 95.3 1.96 ٦ ٨ VISIBILITY (STATUTE MILES) 98.0 0.96 83.3 88.0 91.3 95.3 0.96 0.96 96.7 83.3 91.3 96.7 7 7 0.96 91.3 83.3 62.3 0.96 6.76 0.86 66.3 83.3 83.3 61.3 1.96 84.0 84.0 88.0 0.96 7.96 ٨١ 95.3 6.76 0.86 66.3 91.3 83.3 0.96 0.96 1.96 83.3 88.0 61.3 0.96 7.96 83.3 7 98.0 98.0 98.0 66.3 91.3 0.96 0.96 0.96 6.26 83.3 84.0 91.3 95.3 96.7 7.96 88.0 1 2% 61.3 6.56 0.96 0.96 66.3 61.3 83.3 84.0 84.0 6116 96.0 96.0 7.96 48.7 88.0 1.96 N Al 0.96 6.16 95.3 0.96 7.96 63.3 66.3 91.3 91.3 ٨I 83.3 0.96 87.3 97.3 65.3 95.3 0.96 95.3 7.06 7.96 98.7 94.7 90.7 AI 0.86 98.0 0.96 0.86 98.0 0.86 98.0 89.3 0.46 0.46 98.0 98.0 98.0 81.3 82.0 97.3 93.3 95.3 81.3 89.3 94.7 86.0 7.56 ٨I 67.3 67.3 0.89 77.3 78.0 80.0 80.0 80.0 80.0 80.0 78.0 80.0 80.0 80.0 80.0 77.3 77.3 80.0 10.0 78.7 78.7 13.3 73.3 2 NO CEILING ≥ 20000 1200 18000 12000 2000 3500 2000 1800 (FEET) 9000 5000 4500 88 88 AI ALA AI AI AI AI ALAI AI AI AI AI ALAI

0

TOTAL NUMBER OF OBSERVATIONS

0.86 98.0

80.0 80.0

88

AI AI

0

98.0

80.0

80

AI AI

80.0

98.0

0.09 90.0

88

ALA

93.3

90.7

80.7

#### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

200

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16 HOURS (L S T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

YEARS

\* Al 26.0 ٨١ 26.0 AI

7 1

Al

1 2%

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2

(FEET)

26.0

26.0

26.0

26.0

68.7

68.0 68.7

22.7 65.3

18.0

NO CEILING

20000

52.7 52.7

VISIBILITY (STATUTE MILES)

26.0 68.7 68.7 68.7

68.7

68.7

68.7

٨١

1 ٨I

2 5/16

2 ٨١ 26.0

68.7

69.3 68.7

68.7 68.7

68.7

68.7

68.7

68.7 68.7

68.7

0.89 58.7

68.7

68.7 68.7

68.7 69.3

68.7 69.3

69.3

68.7 68.7 69.3 68.7 80.7 80.7 72.7

69.3

72.7

72.7 72.7

69.3

72.7 80.7 82.7

69.3 90.7 72.7 80.7 82.7 93.3 93.3 7.06 1.06 82.7

82.7

82.7

82.7 7.06 93.3

82.7 40.1

82.7

82.7 1006

82.7

82.7

82.7

79.3 82.0 90.0

7.06

80.7

80.7 80.7

80.7

80.7

80.7

80.7

77.3 80.0 80.7

62.0 0.49

MIM

0

72.0

69.3

54.7

12000

52.7

72.7

72.7 72.7

69.3

69.3 72.7

68.7

65.3 0.99

VI VI 0008 0008 0008

93.3 93.3

93.3

0.46 6986 1006 0.46 93.3 93.3 0.46 93.3 0.46 0.46 94.7 0.46 0.46

0.46

0.46

0.46

0.46

0.46

0.46 94.7

0.46

0.46 94.7

94.7

7.46

4.7

94.7

94.

0.46

94.7

0.46

91.3 93.3

73.3

3000

AI AI

0

0.46

0.46

0.46

0.46 0.46 0.46

0.46

0.46 0.46 0.46

0.46

0.46

0.46 0.76 0.46

93.3 63.3 93.3 93.3

40.7

73.3

40.7

73.3

450 600 600

ALAI

90.7 90.7

73.3

92.7

0.06

13.3

9000

ALAI

0.46

0.46

0.46

0.46 94.0

93.3

93.3

93.3

93.3

63.3

93.3

63.3

93.3

93.3 7.06

93.3

93.3 93.3

93.3 93.3

90.0 92.7

73.3

90.7 90.7

7.06

87.3

71.3

2000

ALAI

0

0.46 0.46

0.46

0.46 1000 95.3 97.3 61.3 0.46 65.3 1.46

95.3 97.3 66.3

95.3

95.3 95.3 97.3

95.3

95.3 97.3 66.3

95.3

97.3 99.3

97.3

97.3

1.96

96.0 96.7

86.3

7.86

98.0

95.3

76.0

2500

ALAI

74.7

66.3

97.3 99.3 99.3

95.3

94.7

97.3

95.3 99.3 86.3 99.3 66.3 66.3

€.16

66.3

66.3

66.3

66.3

66.3

66.66

98.7 7.86

98.7

0.86

95.3

76.0

99.3

98.7

0.96

76.7

1500

ALAI

0

66.3

66.3

99.3

98.7 96.0 98.7

0.96

76.7

76.7

1200

ALAI

0

66.3

98.7 98.7

0.96

76.7

0.96

76.7

88

ALAI

0.96

76.7

0.96 0.96

76.7 76.7

88

ALAI

0

86.66

66.3

98.7

99.3

0.96

76.7

88

AI AI

66.3 66.3 66.3

96.0 98.7

76.7

88

ALAI

76.7

98.7 7.86

0.96

76.7

0.96

76.7

80

AI AI

0

66.3

66.3 99.3 66.3

000000000 0.0010.00. 

150

TOTAL NUMBER OF OBSERVATIONS

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

E

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL NUMBER OF OBSERVATIONS

150

BERR

SMOS DIRNAVOCEANMET

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 HOURS (1.5.T.) SUTE

200

0

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILI	(S)							
(FEET)	0 1	9	\$	4	N AI	≥ 2%	N AI	۲۱ ۲۲	¥1 ¥1	ĀI	% AI	*	Z AI	≥ 5/16	AI N	٨١	
O CEILING	2.0			0	61.3	-	61.3	-	-	1	-	-	-	-	61.	61.	m
¥ 20000	2.0	81.3	84.7	85.3	86.0	86.0	. 9	86.0	86.0	86.0	86.0	86.0	86.0	86.	0 86.0		0
	2.0			200									9	•	86.	86.	0
≥ 16000	2.0	82.7	86.0	86.7	87.3		87.3	87.3	87.3	87.3		87.3	87.3	87.	3 87.3	87.	3
	2.0			86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3		87.3	87.	3 87.3	80	6
≥ 12000	2.0	84.0	87.3	0.88	88.7	•	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.		88.	-
	2.0				92.7		92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.	7 92.7	92.	~
000	2.0	88.7		92.7	63.3	93.3	93.3	93.3	93.3	63.3		63.3	63.3			93.	0
	2.0			97.3	0.86	8	98.0		.8	0.86	0.86	0.86	8	8	0 98 0	98.	0
700	2.0	93.3		97.3		0.86		0.86	0.86	98.0	8		98.0	•		•	0
	2.0	63		97.3	0.86	98.0	0.86	0.86	98.0	98.0	0.86	0.86	0.86	8	-	6	0
2000	2.0	93.3			03						8		98.0	•	8	.86	0
1	2.0	93.		97.3		98.0		0.86	0.86	0.86	98.0		0.86	00	98.	96	0
141	2.0	0.46			8	98.7	00		98.7	*			8		8	0	1
1	2.0	3		0.86	7.80	7.86	7.86	98.7	7.86	7.86	48.7	48.7	7.86	. 36	7 98.7	98.	1
3000	2.0	0.46	97.3	0.86	7.86	98.7	98.7	1.86	7.86	98.7	48.7	7.86	98.7		7 98.7	. 88	~
1	2.0	0		0.86	7.86	98.7	98.7	48.7	7.86	7.86	1.86	186	7.86	98.	1 98.7	98.	1
7000	2.0	95.3		66.3	0.001	0.001	100.00	00.00	00.00	00.00	00.00	00.00	0.00	100.	0,0010	100	0
	2.0		7.86	66.3	0.00	0.001	0.001	0.001	00.00	0000	0.00	00.00	0.00		0.0010	-4	0
1500	2.0			66.3	0.00	0.001	100.00	00.00	0.00	00.00	00.00		0	•	0100.0	100	0
	2.0	95.3	68.7	66.3	0.00	0.00	0.001	00.00	0.00	00.00	00.00	00.00	0000	•	010000	100	0
V 1000	2.0		7.86		00.00	00.00	100.001	00.00	00.00	00.00			0	•	0.0010	-	0
	2.0	. 56	1.86	66.3		0.001	0.001	00.00	00.00	10.00	•	0	0	•	0100.0	100	0
800	2.0	0	28.1		0.00	0.00	100.00	00.00	00.00	00.00		•	00.00	•	0.0010	-	0
	2.0	.56	1.86	66.3	0.00	0.00	0.001	0.00	0.00	0000	00.00				0.0010	100	0
99	5.0	95.3	48.1		0.00	0000	100001	00.00	00.00	00.00	00.00	00.00	0.00	•	0100.0	100	0
	2.0	65.3	98.7	66.3	0.00	0.00	0.001	00.00	0.00	00.00	00.00	0.00		100.	0.0010	100	0
V 400	2.0	95.3	98.7		0.00	0.001	10000	00.00	00.00	00.00	00.00	00.00		100	0.0010	100	0
300	2.0	6.56	68.7		0.00		0.001		0	0.00	00.00	0.00	0.00	1001	0	-	0
		95.3	1.96		0.00	0000	10000	00.0	00.00	00.00		000	•	100	0.0010	100	0
80		en u	7.86	99.3	•	•	0.001	0	000		000	000	000	•	0.0010	100	0
1	•	\$2.3		23.5	0000	0.00	0000	000	000	0000	000	000	0	000	2000	001	5

TOTAL NUMBER OF OBSERVATIONS

150

SOMS DIRNAVOCEANMET

81.2

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90.96

# CEILING VERSUS VISIBILITY

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NO

GUANTANAMU BAY, CUBA

HOURS (L S.T. NONTH I

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

A

2

(FEET)

NO CEILING 20000 18000 35.8

14000

ALAI

38.6 38.9

000 000 000

AI AI

35.0

34.8

AI AI

99-9100-0100-0100-016-66 69.9100.0100.0100.016.65 0.0010.0010.0010.0016.66 0.0010.0010.0010.0016.66 6.96 9.96 81.2 88.7 1.56 6.96 97.0 84.0 89.4 96.3 6.96 6003 81.1 81.5 6.66 82.2 Al 91.6 6.66 6.66 6.66 34.0 90.96 6.66 81.1 6.96 60.66 6.66 4.68 96.3 96.5 96.3 8.66 81.5 88.7 95.1 96.3 58.7 89.5 8.66 82.2 2 5/16 97.6 84.0 96.5 90.96 8.66 6.66 81.5 86.3 6.96 81.1 82.2 89.4 96.3 6.96 66.5 30.66 8.66 6.66 6.66 6.66 88.7 45.1 98.7 6.66 2 Al 82.2 6.96 9.96 81.1 6.96 96.5 91.6 8.66 6.66 6.66 84.0 8.96 6.96 99.5 6.66 6.66 99.5 9.66 88.7 88.7 89.4 95.1 98.7 6.66 Al 89.4 84.0 81.5 82.2 6.06 6.66 6.96 6000 9.96 39.5 1.56 6.65 6.66 6.66 81.1 81.2 6.96 6.96 97.6 99.5 8.66 8.66 6.66 7.86 6.66 ۸I 81.2 9.16 89.4 9096 6.66 6.06 6.66 84.0 80.3 6.96 6.96 7.86 6.66 5.66 6.66 82.2 96.5 8.65 1.66 6.56 6.66 95.1 96.3 96.3 8.66 6.66 6006 6.66 ٨١ 9.96 5.66 81.5 89.4 6.96 9.7.6 66.5 8.66 8.66 8.66 8.66 8.66 84.0 95.1 6.96 96.3 2.65 8.66 96.5 96.5 8.66 81.2 82.2 98.7 88.7 88.7 71 14 96.6 66.5 9.66 81.5 95.1 96.3 6.96 63.5 98.7 8.66 84.0 89.4 80.3 81.2 81.2 82.2 82.2 6.96 91.6 49.7 8.66 8.66 8.46 8.66 8.66 7.66 9.66 ٨١ 81.5 8.66 96.5 9.96 8.66 8.66 0.48 89.4 1.56 96.3 6.96 8.96 6.96 8.66 3.66 8.66 9.16 66.66 66.6 8.66 88.7 4.66 8.56 98.7 7.66 7 96.6 8.66 81.2 84.0 86.3 96.3 54.5 4.68 6.96 94.6 49.7 8.66 8.66 8.66 8.66 8.66 8.66 95.1 96.3 5.66 1.66 88.7 98.7 1 2% 84.0 81.5 4.66 81.1 88. 4.68 90.3 96.5 9.96 97.5 98.6 4.66 9.66 9.66 8.65 8.66 81.2 95.1 6.96 96.3 96.8 9.66 8.66 8.66 8 . 66 53.7 8.56 8.65 N Al 81.8 68 88.3 0.66 83.6 96.8 66.3 80.8 95.8 1.96 36.2 98.2 0.66 66.5 3.66 66.3 99.3 66.3 94.7 6.56 96.4 6.66 97.1 Ai 68.8 8.80 80.7 6.56 95.6 98.5 98.8 80.3 81.3 95.3 6.56 87.8 88.5 2.96 4.56 8.86 8.86 98.86 83.1 9.96 1.16 7.86 98.8 48.7 98.8 93.8 8.86 98.86 11 93.0 \$3.3 93.5 96.3 96.3 6.26 94.2 95.3 85.3 \$3.2 96.1 6.96 96.3 95.3 6.96 6.96 80.7 91.8 92.9 96.3 96.3 6.96 96.3 43.9 96.1

45.9 42.9

4500

AI AI

0.64 43.2 43.8

3500

AI AI

2500

ALAI

9.24

8000

ALAI

42.8

42.5

5000

AI AI

45.4

63.6

44.1 7. 55

1500

AI AI

44.1

44.1

1200

ALA

44.1 44.1

88

A! A!

44.1

88

AI AI

44.01 44.1 44.1

83

MIM

1.44

44.

80

MIAI

44.1

200

AL AL

TOTAL NUMBER OF OBSERVATIONS

1500

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

73-

73-77

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O T HOURS (L S T.)

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	PERCENTAGE FREQUENCY OF OCCURRENC (FROM HOURLY OBSERVATIONS)	OCCURRENCE	/ATIONS)
--	--	------------	----------

	٥	4.5	5.5	5.5	5.5	5.5	5.5	5.5	6.1	6.1	8.9	8.9	8.9	8.9	6.9	8.9	7.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	A1	5		5 9			5	5	1 9		8 9	8	8		8 96	8	4	66 5	0010	0010	0010	0100	0010	0010	010	0100	0010	0010	0010	0010	0100	2010	2000
	VI N	84.	95.	95.	95.	95.	.56	95.	96	96	96	96	-		-	96	97.	66	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	5/16	.5	.5	. 5	.3	.5	.5	.5	7.			8	8	8.	00		4	4.	.01	0		10.	0	0.	10.	0	0	10.	.01	0	.0	10.	0
	AI .	84	95	95	9	95	95	95	96	96		-	96	96	0	6	97	66	100	100	100	100	-4	100	100	100	100	100	100	100	100	100	100
	N N	34.5	95.5	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.8	96.8	96.8	.0	96.8	96.8	97.4	4.66	000	0000	00.00	000	0000	0.00	00.00	0000	0000	0.00	00.00	0.00	0000	00.00	0.00
	*	.5	.5			.5				7	8	8	00	8	00	00	4	4.	10.	10.	10.	0.	4	-	10.	-	.010	-1	000	-	00	00	0.
	AI	1	95	95	95	95	95	95	96	96		96	96	96	96	96	97	66	100	100	100	001	100	100	100	100	100	001	100	100	100	100	001
	% AI	4.5	5.5	5.5	5.5	5.5	5.5	5.5	6.1	0	6.8	96.8	8.96		96.8	8.96	4.16	7.66	0000	0000	0.00	0000	00.00	0000	0000	0000	0.00	0000	0.00	0.00	0000	0000	0000
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TE MIL	11/4	4.5	5.5	3.5	5.5	5.5	5.5	5.5	6.1	6.1	8.0	6.8	8.9		8.9	8.0	4.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	0.0	0.0
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	2 2%	84.5	35.5	5.5	35.5	15.5	35.5	35.5	96.1	.0	96.8	36.8	16.8		96.8	96.8	4.16	66.4	00.00	0.00	00.0	000	0	0	0.00	0	0.0		000	00.00	000	.0	0.0
	е	S	.5	.5	5	5	5	5	.1.	-	8	8	80	-	80	8	4	4.	010	010	.010	010	010	010	010	010	010	010	010	010	010	-	010
	λl	84	95	95	95	95	95	95	96	96	96	96	96	96	96	96	67	66	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	4	3.2	4	4 . 2	4 . 2	4.2	4 . 2	4 . 2	4.8	4.8	5.5	5.5	3.5			8.5	5.1	8.3	8.7	8.7	8.7	8.7	8.1	. 7	8.7	8.7	8.7	3	8.7	3	2.3	2 .	8
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TOTAL NUMBER OF OBSERVATIONS

5.5

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

73-77

100

7

04 HOURS (1.5.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS)

89.0 94.2 \* 89.0 2.46

0.68

94.2 94.2

94.2 94.2

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(FEET)

NO CEILING

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VISIBILITY (STATUTE MILES)

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2.46 2.46

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94.2 94.2 2.46 94.8 94.8

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94.2 2.46

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200

155

TOTAL NUMBER OF OBSERVATIONS

SMOS

DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 HOURS (L S.T.) Non H

	0 Al	-	8 94.8			8 94.8	.5 95.5	.5 95.5	.5 95.5	** 97.4	** 97.4	** 97.4	** 97.4	6 4.	4.76 4.	.4 97.4	.7 98.7	+ 66 +	10.	10.	0.0010.	0.0010.	010.	0.0010.	0.0010.	2	0.0010.	0.0010.	2	2	0.0010.	0.0010	00000
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	2 2%	79.	94.	8.46		8.46	95.5			4.76	97.4	4.66	97.4	4.7.4	4.7.4	4.16	98.7		100.001	100.		100.001	100.	100.001	100.001	100.001	100.001	100.001	100.001	100	100	0	
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TOTAL NUMBER OF OBSERVATIONS

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SMOS DIRNAVOCEANMET

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

73-77

10 NOURS (1 S.T.) JUL

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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TOTAL NUMBER OF OBSERVATIONS

155

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DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

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OF S

JUL

VISIBILITY (STATUTE MILES)       2.2     2.1%     2.1     2.3%     2.3%     2.5%     2.6     2.6     2.6	8.4 68.4 68.4 68.4 68.4 68.4 68.4 68.4 6	2.3 92.3 92.3 92.3 92.3 92.3 92.3 92.3 9	2.3 92.3 92.3 92.3 92.3 92.3 92.3 92.3 9	2.3 92.3 92.3 92.3 92.3 92.3 92.3 92.3 9	2.3 92.3 92.3 92.3 92.3 92.3	3.6 93.6 93.6 93.6 93.6 93.6 93.6 93.6 9	4.2 94.2 94.2 94.2 94.2 94.2 94.2 94.2 9	8-1 98-1 98-1 98-1 98-1 98-1 98-1 98-1 9	8.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7	8.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7	8.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 9	8.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 9	8.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 9	8.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7 9	8-7 98.7 98.7 98.7 98.7 98.7	10.0010.0100.0100.0100.0100.0100.010.01	.0100.0100.0100.0100.0100.0100.0100.0100.010	10.0010.0100.0100.0100.0100.0100.0100.0100.010	.0100.0100.0100.0100.0100.0100.0100.0100.010	0,000,0100,0100,0100,0100,0100,0100,0100,0100	.0100.0100.0100.0100.0100.0100.0100.0100.010	010.0010.0010.0010.0010.0010.0010.0010.0010.	.0100.0100.0100.0100.0100.0100.0100.0100.010	0100.0100.0100.0100.0100.0100.0100.0100.010	40.0010.0010.0010.0010.0010.0	0100.010.0100.0100.0100.010.	0.0100.0100.0100.0100.010.0	10.0010.0010.00100.0010.0010.0010.010	0.0100.0100.0100.0100.0100.0100.0100.0100.0100.0	0.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01
N	4.	.3 92.3 92.3 9	.3 92.3 92.3 9	.3 92.3 9	.3	93.6	4.2	3.1 98.1 9	.7 98.7 9	8.7 98.7 9	8.7 9	.7 98.7 98.7 9	.7 98.7 98.7 9	.7 98.7 98.7	8.7 9	.0100.0100.0100.	.0100.0100.0100.	.0100.0100.0010.	.0100.0100.0100.	.00100.0010.0010.	100.0100.001	0.0100.0100.0100.0	.0100.01	.0100.01	0	10	10.	0.0010.0	.010	-
yl y	65.8 68.4 68.4 6	.0 92.3 92.3	.0 92.3 9	.0 92.3 92.	0	.3 93.6 93.6	.0 94.2 94.2	1.89 1.89 8.1	· S	.5 98.7 98.7		.5 98.7 9	.5 98.7 98.7 9	.5 98.7 98.7 9	.5 98.7 98.7		.8100.01	8	.8100.	10.0010.0018.	.8100.0100.018	8100.0100.018	8.9	010.0010.0018	6.8100.0100.010	6.8100.010.018.0	6.8100.	6.9100.	6.8	96.8100.010.010
CEILING (FEET) ≥ 10	NO CEILING 52.9	74.8	16000 74.8	14000 74 . 8	80	10000 76 . 1	8	8000	.3	81.3		4500 81.3	1.3	3500 81.3	1.3	2500 82.6	5.6	1800 82.6	5.6	1200 82.6	9	900 82.6	95.6	700 82.6	82.6	82.6	400 82.6	300 82.6	82.6	100 82.6

0

0 0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

8945

CEILING							VISI	IBILITY (ST.	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2 1	9 11	S AI	71	ε Al	> 2%	N 2	۷۱ ۲۵	¥1 YI	- AI	% Al	*	× Al	≥ 5/16	N N	0 11
NO CEILING		_	49.7	0	ò	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 20000	-	_	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	-	81.3	81.3	81.3
	2		80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	-	81.3	81.3	81.3	=	81.3
N 16000			80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
		-	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 12000	;		82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
	:		84.5	85.2	85.2	45.2	85.2	85.2	85.2	85.2	85.2	85.2		85.2	85.2	85.2
0006	-		85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	.0	86.5	86.5	86.5
1	0	-	89.7	60.3	6.06	90.3	8.06	90.3	90.3	90.3	90.3	6.06	90.3	8006	90.3	90.3
1 7 1000	-		91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	910	91.6
		-	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	:	-	91.6	91.6	91.6	91.6
2000	:		91.0	91.6	91.6	91.6	91.6	91.6	-	91.6	-	91.6	91.6	9116	9100	91.6
1	-	-		91.6	91.6	91.6	91.6	91.6	91.6	9116	91.6	9116	91.6	91.6	9106	91.6
1 4000	-	-	•	91.6	-	91.6	-	91.6	-	91.6	-	9116	91.6	91.6	910	91.6
		-	0.16	91.6	91.6	91.6	91.6	91.6	-	91.6		91.6	•	91.6	9116	91.6
3000			•	94.2	94.2	94.2	94.2	94.5	94.2	+	2.46	2.46	2.46	34.5	94.2	94.2
1		-	1.86	7.86	48.7	98.7	7.86	7.86	7.86	7.86	1.86	98.7	48.7	98.7	186	98.7
1 7 1		-	4.66	100.001	100.001	100.001		100.001		100.0	100.0	0.001	100.0	100.0	100.001	0000
1		-	4.66	100.001	100.001	100.001	100.001	100.00	100.0	100.0		0000	0	100.0	10000	0000
1500			99.4			100.00		100.00	100.00	100.0	100.00	0000	100.0	100.0	100.001	00.00
		-	4.66	100.001	100.00	100.00	100.00	100.00	100.0	100.0		0.001	0	10000	•	0000
1000		-	4.66	100.001	100.00	100.00	100.001	100.00	100.0	10000	100.00	100.00		0	100.001	0000
		-	4.66	100.001	0.001	0.001	0.001	100.00	100.0	100.0		0.00	0.001	10000	100.00	0000
8			4.66	100.001	100.001	100.00	100.001	100.00	100.0	100.0				0	100.001	0000
		_	4.66	100.00	0.001	00.001	100.001	100.00	•	10000			0.001	100.0		0000
8		-	4.66	100.001	100.001	10000	100.001	100.00	100.0	1001			•.	0	•	0000
200		-	4.66	100.00	0.001	0.001	100.001	100.00	100.00	10000	•			100.0	100.00	000
V 40			4.66	100.00	100.00	100.00	100.0	100.0	100.0	100.0	100.0		0	1000	10001	00.00
300			4.66	0.001	0.001	10000	100.0	100.0	0.001	100.0	100.0	0.00	0000	0000	0.00	
	•	-	4.66	0.001	00.00	0.001	0.001	0001		0.001	0.001	0	0.001	0.001	0.001	00.0
80	76.8	95.5	4.66	0.00	000	0000	0000	0000	000.00	0000	0000	0000	0000	00000	0000	00.00
		4		-			2			-						

TOTAL NUMBER OF OBSERVATIONS

-

82.6

VI VI 88

40.0 40.0

V IV 12000

41.9 88.4

41.9 88.4

88.4

41.9

2000

18.7 78.7

VI VI 00081 00081

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2

(FEET)

NO CEILING

¥ 20000

**CEILING VERSUS VISIBILITY** 

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19 HOURS (1 S T.)

0.0010.0010.001 0.0010.0010.0010 0.0010.0010.00 ٨١ 95.5 4.76 1.96 8.46 98.1 96.1 ۸۱ 8.46 8.46 95.5 1.96 4.76 98.1 96.1 83.9 94.8 98.7 85.2 89.0 94.8 8.46 4.16 1.96 1.96 00.0100.0100.0100.0100.0100.0100.01 95.5 83.9 92.3 0.00100.0100.0100.0100.0100.0100.00 94.8 94.8 98.1 7.86 7.86 Al 89.0 98.1 97.4 83.9 8.46 8.76 95.5 1.96 85.2 92.3 96.1 \* 85.2 8.46 83.9 8.46 89.0 95.5 4.70 1.96 98.1 92.3 8.46 1.96 7.86 ٨١ 8.46 8.46 96.1 98.1 8.46 95.5 4.16 96.1 96.1 98.7 VISIBILITY (STATUTE MILES) 4.16 92.3 7.86 98.1 71 89.0 4.76 8.46 8.76 95.5 92.3 94.8 94.8 96.1 98.1 98.7 96.1 71 7.86 96.1 98.1 96.1 94.8 94.8 89.0 95.5 96.1 4.16 00.0010.00 99.4100.0100.01 94.8 92.3 98.1 96.1 1 2% 98.1 85.2 95.5 1.96 4.16 83.9 89.0 8.46 96.1 W VI 94.2 95.5 96.8 83.9 83.9 85.2 91.6 2.76 94.8 95.5 94.2 82.6 84.5 88.4 95.5 92.3 6.76 93.6 93.6 8.96 90.8 8.96 83.2 8.96 81.9 92.3 8.46 96.8 8.96 8.96 96.8 81.9 81.9 86.5 19.7 95.5 96.8 96.8 ۷) ۱۸

43.9 91.6

2500

91.0

69.64

3500

ALAI

43.9 91.6

89.7

45.6

4500

AI AI

42.6 89.7

45.6

9000

ALAI

92.9

43.9

1800

AI AI

43.9 92.9 43.9 92.9

98

ALAI

88

ALAI

43.9 92.9

88

AI AI

88

AI AI

43.9

88

AI AI

80

ALA

43.9 92.9

TOTAL NUMBER OF OBSERVATIONS

155

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

THOU THOU

22 HOURS (1 S T.)

2

TOTAL NUMBER OF OBSERVATIONS

155

SOWS DIRNAVOCEANMET

#### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

200

ALL HOURS (1 S.T.

CEILING							VIS	VISIBILITY (STATUTE MILES	ATUTE MIL	ES)						
(FEET)	5 V	N N	۱۷ د ۲	4	N 3	Y 2%	71	۲۱ کا	%1 AI	1 2	% AI	*	Z.	≥ 5/16	N NI	٨١
NO CEILING	50	67.5	6.69	70.7	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	11.2	71.2	71.2	71.2
1 20000	3	86.1	89.3	90.2	0	90.7	d	0	0	0	0	0	0	0		90.7
V 18000		86.1	86.3	0	90.7	90.7	90.7	90.7	40.4	90.7	2006	40.1	40.4	40.4	4006	90.7
00091 ≤	3	86.1	89.3	90.2	90.7	90.7	0		0		0			90.7	40.4	90.7
14000	45.3	86.3	89.5	4.06	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	•	91.0	91.0
> 12000	45.5	86.5	89.8	40.7	2.16	91.2	91.2	91.2	91.2	91.2	91.2	91.2	-	91.2	91.2	91.2
10000	46.1	87.7	91.0	6116	95.5	2	92.5	92.5	92.5	3	95.5	5.	2.		92.5	92.5
0006 AI	40.4	88.5	91.8	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3		93.3		93.3	93.3
8000	48.2	4.06	0.46	94.8	95.5	95.5	95.5			3	95.5	95.5	5		95.5	95.5
7000	48.5	91.1	4.46	95.2	65.5	62.6	3	95.9	62.6		95.9	6.56	95.9		69.6	95.9
9009	48.5	91.1	4.46	95.2	6.56	5	6.56				95.9		62.6	5	62.6	95.9
2000	48.6	91.1	4.46		0.96			0.96		.9	0	0.96				96.0
4500	48.6	91.3	94.6	98.5	96.1	96.1	96.1		9	96.1	96.1	96.1		1.96	96.1	96.1
141	48.6	91.3	94.6	98.5	1.96			1.96				1.96	1.96		;	96.1
3500	48.8	61.5	8.46	98.7	6.96	96.3	96.3		96.3	96.3	9	6.96	96.3	6.96	8.96	96.3
3000	49.2	92.2	92.0		97.1	-		97.1		:	97.1	97.1	97.1			97.1
> 2500		0.46	61.3	4.86	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66		0.66	0.66	0.66
≥ 2000	50.1	6.46	•		100.001	100.0	10000	0.001	100.0	10000	0	100.00	100.0	100.0	00001	0000
	50.1	6.46	68.3	6	0.00	0.001	0		•		100.0	0000	0	100.0	00.00	0000
≥ 1500	50.1	6.46	68.3	4.66	100.001	100.0	100.0	100.00	100.00	10000	100.00		0	100.00	10000	0000
1200	50.1	6.46	6.86		100.001	0	0.001	100.0	100.0	0.001	0		0	100.0	0000	0.00
VI 1000	50.1	6.46	6.86		100.001	0000	100.0	100.00	100.00	100.0	0		0	100.00	00.00	00.00
8 AI	50.1	6.46	98.3		100.00	0.001	10000	100.0	100.00	100.0	100.001	0.001	0	100.0	00.00	00.0
	50.1	6.46	6.86	-	100.00	100.0	100.0	100.0	100.00	100.0	100.00	00.00	0.001	100.00	100.001	0000
	50.1	6.46	6.86	4.66	100.001	0.001	0.001		100.001	0.001	100.00	00.00	•	100.00	00.00	0000
009	50.1	6.46	6.86		100.00	0.001	100.0	100.00	100.001	100.0	100.00		0	100.00	00.00	00.00
2 300	50.1	6.46	68.3		100.001	0.001	100.0		0.001	100.0	100.0	0000	0.001	0.001	00.00	000
1 400	50.1	6.76	98.3		100.001	100.0	0.001	100.00	100.0	100.0	100.00	0	0	100.00	10000	0.00.
300	50.1	6.46	6.86		0.001		0.001		100.00	0.001	100.001	0.00	0.00	100.0	0000	0000
	20.1	6.46	6.86		0000	0000	100.0	100.0	0.001	0000	0.001	00.00	0000	100.001	00.00	00.0
٧١ 8	50.1	6.46	98.3		0	0.001	10000	100.0	10001	0.001	0.001	0000	0.001	10000	0000	0000
	50.1	6.46	68.3	4.66	100.00	0.001	100.0	100.0	0000	100.0	100.00	000	0.00	0.001	0000	0000

0.0

0

TOTAL NUMBER OF OBSERVATIONS

1240

96.8 96.8 96.8 96.8

8.96

1006

8.96

8.96

98.1 98.1

1.86

1.86

98.1

1.86

98.1

98.1

8.96

8096 98.1

96.8

96.8 96.8 98.1

8.96

96.8

8.96

96.8

96.8 96.8

96.8

96.8 1.86

92.3

14.2

14.2

2000

14.2

14.2

4500

AI AI

14.2

3200

AI AI

93.6

14.2

2500

ALAI

14.2 14.2 14.2

1200

ALAI

14.2

1800

AI AI

14.2 14.2

88

ALAI

88

ALAI

14.2

88

ALAI

98.1 98.1 98.1

100.010 100.010 

96.1 96.1

1.96 96.1

96.1

1.96

8.46

95.5

2.46

94.2

94.2 2.46

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# WAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

GUANTANAMO BAY, CUBA

01 HOURS (1.5.7.) MONTH

2

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS)

2.46 2.56 2.46 8.76 95.5 96.8 94.2 96.1 96.1 8.96 96.8 94.2 96.1 96.1 2 5/16 1.96 1.96 8.96 34.5 8.96 8.96 2.46 95.5 1.96 2.46 2.46 94.2 8.76 1.96 2 ۸۱ 2.46 95.5 8.96 8.96 94.2 8.96 34.5 2.46 94.2 8.76 96.1 1.96 96.1 8.96 8.96 96.1 ۸۱ 2.46 2.46 2.46 1.96 8.96 95.5 1.96 1.96 2.46 8.46 1.96 N N 1.96 96.1 96.1 1.96 96.8 96.8 94.2 9.96 8.96 94.8 94.8 96.8 34.5 95.5 Al VISIBILITY (STATUTE MILES) 95.5 8.96 94.2 94.2 1.96 96.1 96.1 96.1 1% ۸۱ 8.96 2.46 8.96 1.96 8.96 96.1 96.1 8.46 95.5 96.1 7 7 8.96 95.5 8.96 8.96 34.5 2.46 34.5 8.46 1.96 96.1 96.1 34.5 2.46 1.96 ۲ ۸۱ 96.1 96.8 84.2 94.2 1.96 96.1 94.2 8.75 95.5 96.1 96.8 96.8 96.8 7 21/2 8.96 8.46 95.5 1.96 96.1 96.8 2.46 1.96 2.46 96.1 94.2 2.46 ۸I 96.8 94.2 84.5 8.46 96.1 96.1 8.96 95.5 95.5 92.3 96.8 96.8 1.96 96.1 ٨١ 2.46 1.96 1.96 8.96 8.96 1.96 8.46 96.1 94.2 41 91.6 91.6 91.6 92.3 92.3 91.0 91.0 91.0 ٨١

14.2

VI VI 0008 1 VI 0009 1 VI

2

(FEET)

NO CEILING

× 20000

14.2

12000

14.2

2000

14.2

14.2

TOTAL NUMBER OF OBSERVATIONS

155

-

0.0010.00.

100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.010

80

AI AI

0

88

AI AI

200

### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04 HOURS (L S.T.)

VISIBILITY (STATUTE MILES)	Y 2 Y 1% Y 1 Y 2 Y 2 Y 10 Y 2 Y 10 Y 10 Y 10 Y 1	1.3 81.3 81.3 81.3 81.3 81.3 81.3 81.3 8	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	99.0 89.0 89.0 89.0 89.0 89.0 89.0	8 0.68 0.68 0.68 0.68 0.68 0.88.0 89.0	8 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.6	1.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0	2.3 92.3 92.3 92.3 92.3 92.3 92.3 92.3 9	7.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4	7.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 9	7.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 9	7.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 9	7.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 9	7.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 9	7.4 97.4 97.4 97.4 97.4 97.4	7.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4 9	78.7 98.7 98.7 98.7 98.7 98.7 98.7 98.7	0.0010.0100.0100.0100.0100.0100.0100.0100.0100.0100.0	0.0100.0100.0100.0100.0010.0100.0100.0100.0	0.0010.0100.0100.0100.0100.0100.0100.0100.0100.01			0.0010.0100.0100.0100.0100.0100.0100.0100.01	0.0100.0100.0100.0100.0100.0100.0100.0100.0100.01	.0100.0100.0100.0100.0100.0100.0100.0100.010	100.0100.0100.0100.01	.0100.0100.0100.0100.0100.0100.0100.0100.0100	0.0100.0100.0100.0100.0100.0100.0100.0100.0	.0100.0100.0100.0100.0100.0100.	0.0010.0010.0010.0010.0010.0010.0010.0010.0010.00
	*	.3 81.3	0.00	0.68 0	0.68 0.	0.68 0.	0.16 0.	2.3	7.4	7.4	4.79 4.	4.76 4.	7.4	7.4	97.	97.4	8.7	100.001	100.001	10000	000	1000	100.001	100.001	100.001	100.001	100.001	10.0010.	100.001	100.001
(STATUTE MILES)	¥1 Y	81.38	2000	80.0	89.0	89.0 8	91.0 9	92.3	97.4 9	97.4 9	97.4 9	97.4 9	7.4 9	97.4 9	97.4 9	97.4 9	8.7 9	100.001	100.001	100.010	010-001	00000	100.010	190.010	100.001	100.001	100.001	100.001	100.001	100.001
VISIBILITY	٨١	1.38	0	8	8 0.6	8.0.6	6 0.	2.3 9	7.4 9	6 4.	7.4 9	0	7.4 9	4	6 4.	6 4.	.7 9	.0010.	010	.0000	0000	000	0.0100	.0010.	.0100.	.0010.	.0010.	.0010.	.0010.	100
	2 3 2 2%	1.3	. 0	9.0 89	9.0 89.	.0 89.	1.0 91.		4.79 4.79	97.4 97.4	97.4 97.4	97.4 97.4	4.79 4.79	97.4 97.4	97.4 97.4	97.4 97.4	.7 98.	6 4.	4.6	7.4	7 00 4 00	6.4.6	9.4	6 4.	. 4 9	6 5.	96.4 66.4	4.66 4.65	4.6	4.66 4.66
	٨١	81.3	0 0	89.0	c	0.68 0.	1.0	2.3	4 97.4	4 97.4	4.76 4	4 97.4	7.4	7.4	4.	*	.7	4.6	4.00	5.6	7 00 7	4.6	4.6	4.6		4.6		4.6	4.6	4.66 4
			-1	-	6	0	-	35	-1	27.	97.	11	7.	97	26	97.	98	66	66	7	0	66	66	66	66	66	66	66	66	66
	9 1	77.4 81	2		2.	~	.5		6.	6.	6.	6.	6.	6		95.9	2.76		94.8			94.8					94.8			8.56
	•	4	2000	6 85.2	.6 85.2	.6 85.2	.6 86.5	87.7	4.2 92.9	6.26	4.2 92.9	.2 92.9	6.26 2.4	4.2 92.9	4.2 92.	92.	4.2 94.	4.2 94.	. 76	4.5		4.2 94.	94.	4.2 94.	4.2 94.	4.2 94.	.2 94.	. 76	4.2 94.	

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TOTAL NUMBER OF OBSERVATIONS

155

ORRE

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

07 HOURS (1.5.T.) AUG

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

			_							_														_							_		_
	0 4	63.9	88.4	88.4	88.4	88.4	89.0	90.3	92.3	96.1	96.1	1.96	1.96	1.96	1.96	96.1	97.4	98.1	4.66	7.66	4.66	4.66	00.00	0000	00.00	0.00	00.00		00.00	0000	000	000	2000
	N N	63.9	88.4	88.4	88.4	88.4	89.0	8006	92.3	1.96	1.96	1.96	1.96	1.96	1.96	1.96	4.16	98.1	4.66	4.66	4.66	4.66	00.00	0000	00.00	00.00	00.00	0.00	00.00	0000	•	0000	
	≥ 5/16	63.9	88.4	88.4	88.4	88.4	0.68	6006	92.3	96.1	1.96	-	-	-:	-	1.96	4.16	98.1	4.66	4.66	4.66	4.66		00000	10.00	00.00	00.00	00.00	00.00	00.00	00.00	0000	200
	% Al	3.9	88.4	98.4	88.4	88.4	89.0	6.0	.3	1.9	7		7	-	-	7	*	7.	*	4.66	4.66	4.66		0	0	10.	0	10.	0	5	0	000	2
	*	63.9	88.4	88.4	98.4	98.4	0.68	6.06	.3	-	-	-	-	-	-	-	4.	-	*	7.66	4.	4.66	0	-	0	10.	10.	10.	0	0	0	000	2
	% AI	63.9	88.4	88.4	88.4	88.4	0.68	6.06	92.3	6.1	96.1	1.9	-	~	7	1.9	4	8 . 1	4.	4.	4.66	4.66	0	-	.0	00.00	00.00	10.	0	0	0	000	5
	- 1	3.9	9.4	8.4	6.4	8.4	0.6	6.0	2.3	6.1	6.1	6.1	-	1.9		96.1	4	98.1	4.6	4.6	4.6	4.6	00.01	00.00	00.00	00.01	00.00	00.00	00.01	0	0	0	100001
VISIBILITY (STATUTE MILES)	7 7	3.9 6	8 .4 8	8 4.8	4.8	88.4 8	9.0 8	90.3 9	2.3 9	96.1 9	96.1 9		7	-	96.1 9	96.1 9	*	-	6 4.66	6 4.66	6 4.66	6 4.66	00.00	00.00	00.00	00.00	00.00	00.00	00.00	0.	0		9
ITY (STAT	%1 Y	3.9 6	8.4 8	8.4.8	8.4.8	4.8	9.0	90.3 9	2.3	96.1 9	96.1 9	-	7.	-	96.1 9	96.1 9	3.		*	4	4.	99.4	-	00.00	0	00.00	C	-	0	-	0	0 0	0
=	۸۱	9	20	8	80	8	8	9	0	0	0	0	0	5	0	0	0	0	0	0	0	9	10	0		01	10	0	-	-	9	000	?
N N	7	63.9	88.4	88.4	88.4	88.4	89.0	90.3	92.3	96.1	96.1	1.96	96.1	96.1	96.1	1.96	-	98.1	4.66	4.66	4.66	4.66	0000	0000	.00.0	0.00	0000	0000	0000	0000	0000	0000	0000
	≥ 2%	63.9	88.4	88.4	88.4	88.4	0.68	90.3	92.3	96.1	96.1	96.1	96.1	96.1	96.1	1.96	4.16	98.1	4.66	4.66	4.66	4.66	00.00	0.00	00.00	0.00	00.00	0.00	00.00	0.00	0000	000	2000
	۳ ۸۱	63.9	88.4	88.4	38.4	98.4	0.68	6.06	6.26	1.96	1.96	1.96	96.1	96.1	1.96	1.96	4.16	1.86	4.66	4.66	4.66	4.66	00.00	10.00	00.00	10.00	00.00	10.00	00.00	00.00	00.00	000	0000
	4	63.9	98.4	88.4	88.4	88.4	89.0	6.06	92.3	-		1.96	~		96.1	1.96	4.16		4.66	4.66	4.66	\$ . 66	10.00	10.00	00.00	10.00	00.00	10.00	10.00	0	0	0	10.00
	\$	63.9	4.88	88.4	98.4	88.4	89.0	90.3	m	96.1	7	-	7.	_	1.96	_	*		4.66	99.4	4.	4.66	00.00	00.00	00.00	00.00	00.01	00.00	00.00	-	0	00	100.001
	40 Al	9.	87.1	87.1	87.1	87.1	87.7	0.68	0	00	8.46	80	80	30	80	80	7	8	7.	-	-	-	.7	.7	.71	7	.7	.71	7	7	-	98.7	
	2							1	74.2							1		-	*		*	*	19.4	*	*	*	*	3	4		3	4 4	*
CEILING	(FEET)	o	≥ 20000	18000	00091	14000	7 12000	10000	000	8000	7000	0009	2000	4500	4000	3500	3000	1	7 2000		1500	1	0001		008		99		× 400	30		80	
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CEILING VERSUS VISIBILITY JAN 78

TOTAL NUMBER OF OBSERVATIONS

155

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NOURS (LST.) AUG

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	14		-	1:	-		-		.2		8	8		8		8											0		0			00
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ES .	Al	6	8	8	8	8	87		92					6		6		0		001	0	ŏ	ŏ		ĕ	ŏ	ŏ	õ	ŏ			00
VISIBILITY (STATUTE MILES)	7.1	3	-	-	-	-	-	9	6	4	-	1.	-	1		1	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00
12	Ā		87	18	87	8.3	87	6	35		86			86		86	86	00	00	00	00	00	00	00	00	00	00	00	00	00	8	00
(STA)		3	_	94	_	-	_		6	*				~			-	-	5	0	-	10	0	-	0	10	-	-	0	0	0	00
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	AI		87	00	3	8	00	6	92	6	86	6	98	6	6	6	96	100			001	100	100	100	100	100	100	001	01		Ö	100
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	AI	The same of	87	18	83	20	87		26		3	98	98	86	86	86	96	00	00	00	00	00	00	00	00	00	00	00	00		00	00
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	N Al	1:	-	-	-	-	-		2		8		*			8	8	0	0	00	0	00	00	00	00	00	0	00	0		0	00
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	Al	9	8	20	00	30	8	6	0	9	98	6		98	6	6	8	ŏ		10	01	ŏ	ŏ	001	100	ŏ		ŏ	10	100	ŏ	000
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	AI		87	87	87	87	87	16	35	26	8	8	86	86	86	86	80	00	00	00	00	100	00	00	100	100	100	100	00	100	8	100
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	AI		-			-	-	-	92.	-	*	98.	00	8	98.	*	98.	0	00	00	00	00	00			00	00	00	0	.00	ò	000
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N S	(FEET)	CEILING	20000	8000	16000	4000	12000	000	8	8000	98	900	200	4500	900	3500	900	2500	2000	1800	1500	1200	9	8	8	700	8	Š	400	8	20	8.
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155

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 HOURS (1 S.T.)

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	VI 5	9 11	S AI	4	N AI	≥ 2%	7	71 71	71 71	- 1	% Al	*	Z AI	≥ 5/16	7	٨١
O CEILING	-	11.0 59.4	59.4	59.4		59.4	59.4	59.4	0	59.4	59.4	59.4	\$9.4	59.4	59.4	59.4
≥ 20000	78.7	89.0	89.0	89.0	89.0	89.0	89.0	6	89.0	89.0	89.0	89.0		6	89.0	
	78.7	89.0	89.0		6	0.68	6	89.0	6	.6	89.0	6		89.0	89.0	
7 16000	78.7	89.0	.68	89.0	0.68		6		6		89.0	89.0	89.0	6	89.0	89.0
	79.6	89.7	99.	89.7	89.7	89.7	6		6	0	89.7	6		89.7		89.7
Z 12000	80.0	8.06	6006	8003	0		90.3	90.3	90.3	ò	0	8003	90.3	0	90.3	90.3
	81.3	92.9	32.	92.9		92.9	:	92.9	3			92.9	92.9		92.9	92.9
000	82.6	94.2	94.2	34.2	;		94.2				94.5			*		
1	86.5	7.86	38.	98.7	8	7.86	00	98.7				98.7	98.7	8	98.7	98.7
7000	86.5	98.7	98.7	98.7	48.7	98.7	98.7	98.7		98.7	98.7		98.7	98.7	38.7	98.7
1	86.5	98.7	98.7	98.7	8	98.7					7.36	98.7			98.7	
2000	86.5	98.7	1.86	98.7	7.86	98.7	98.7	98.7	98.7	98.7	7.86	98.7	98.7	98.7	7.86	99.7
1	36.5	7.86	68.7	98.7	7.86	98.7					7.86	7.86			98.7	98.7
141	86.5	48.7	7.86	98.7		98.7	7.86	98.7	7.86	7.86	7.86		98.7	98.7	7.86	98.7
1	86.5	98.7	7.86	48.7	7.86	98.7	98.7	48.7			48.7	7.86	7.86		48.7	98.7
3000	86.5	98.7	1.86	7.86		7.86	7.86	48.7		7.86	7.86	7.86	7.86	28.7	7.86	7.86
	87.1	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	7.66	4.66	4.66	4.66	4.66	4.66	7.66
7 2000	87.7	100.001	00	100.00	00.00	0.00		00.00	00.00	0.00	0.001	10000	00.00	100.00	10.00	0000
	87.7	100.001	00	0.001	0.00	0.00		00.00		ċ	0.001	100.0	0.001	00.00	10.00	0000
1500	87.7	100.001	00.00	100.00	0.00	0.001	100.001	00.00	00.00	0.00		10000	100.00	0	00.00	0.00
	97.7	100001	00.00	0.001	0.00	0.00		00.00	•	0.00		100.00	0.001	00.00	00.00	0000
1000	87.7	100.001	00	10000	0.00	00.00	10000	00.00	00.00		0.001	10000	100.0	100.00	00.00	0000
	87.7	100.001	00.00	0.001	0.00	0.00		00.00	00.00	0.00	0.00		0.00	00.00	00.00	0000
80	87.7	100.00	00	100.00	0.00	0000	10000	00.00	0.00	0.00	0.001	100.00		0	10.00	0000
	87.7	10000	.00	0.001	0.00	0.00		00.00	00.00	0.00	0.001	100.0		00.00	0000	0000
8 Al	87.7	100001	00.00	100.001	0.00	0.00	00.00	00.00	00.00	0.00	0.001		100.00	100.00	10.00	0000
	87.7	100.001	00	0.001	0.00	0.00		00.00	0.00	0.00	0.00	0.001	0.001	0000	00.00	0000
400	87.7	100001	00	10001	0.00	00.00		00.00	0.00	0.00	0.00		100.00	10000	00.00	0000
	87.7	100001	00.00	100.00	0.00	0.00	0000	00.00	0.00	0.00	•	100.0		0.001	00.00	0000
7 200	87.7	100001	.00	100.00	0.00	0.00		00.00		0.00	100.0	100.001	0000	00.00	10.00	0000
	87.7	100001	00	0.001	0.00	0.00	0.00	0.00	0.00	0.00	•	100.0	0.001	0000	0000	0000
٥	87.7	100.001	00	100.001	00.00	0.00	0000	00.00	00.00	0.00	0.001	100.00	100.0	100.001	10.00	0000

TOTAL NUMBER OF OBSERVATIONS

155

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

AUG

9410

VISIBILITY (STATUTE MILES)	Y5 Y4 Y3 Y2% Y2 Y1% Y1% Y1 Y4 Y4 Y5/16 Y4 Y0	39.4 39.4 39.4 39.4 39.4 39.4 39.4 39.4	82.6 82.6 82.6 82.6 82.6 82.6 82.6 82.6	82.6 82.6 82.6 82.6 82.6 82.6 82.6 82.6	83.9 83.9 83.9 83.9 83.9 83.9 83.9 83.9	83.9 83.9 83.9 83.9 83.9 83.9 83.9 83.9	85.8 85.8 85.8 85.8 85.8 85.8 85.8 85.8	88.4 88.4 88.4 88.4 88.4 88.4 88.4 88.4	34.2 94.2 94.2 94.2 94.2 94.2 94.2 94.2 9	94.2 94.2 94.2 94.2 94.2 94.2 94.2 94.2	94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8	34.8 34.8 34.8 34.8 34.8 34.8 34.8 34.8	8.46 8.46 8.46 8.46 8.46 84.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8	94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8	94.8 94.8 94.8 94.8 94.8 94.8 94.8 94.8	95.5 95.5 95.5 95.5 95.5 95.5 95.5 95.5	96.8 96.8 96.8 96.8 96.8 96.8 96.8 96.8	98.7 98.7 98.7 98.7 98.7 99.4 99.4 99.4 99.4 99.4 99.4 99.4	48.7 98.7 98.7 98.7 98.7 99.4 99.4 99.4 99.4 99.4 99.4 99.4	99.4 99.4 99.4 99.4 99.4100.0100.0100.0100.0100.0100.0100.01	10.0010.0010.0010.0010.0010.0010.0010.0100	99.4 99.4 99.4 99.4 99.4100.0100.0100.0100.0100.0100.0100.01	99.4 99.4 99.4 99.4 99.4100.0100.0100.0100.0100.0100.0100.01	99.4 99.4 99.4 99.4 99.4 100.0100.0100.0100.0100.0100.0100.010	10.0010.0010.0010.0010.00100.00100.01	99.4 99.4 99.4 99.4 99.4100.0100.0100.0100.0100.0100.0100.01	99.4 99.4 99.4 99.4 99.4100.0100.0100.0100.0100.0100.0100.01	99.4 99.4 99.4 99.4 99.4100.0100.0100.0100.0100.0100.0100.01	99.4 99.4 99.4 99.4 99.4100.0100.0100.0100.0100.0100.0100.01	99.4 99.4 99.4 99.4 99.4 100.0100.0100.0100.0100.0100.0100.010	99.4 99.4 99.4 99.4 99.4100.0100.0100.0100.0100.0100.0100
,	A1	39.4 39.4	.6 82.6 82.6	.6 82.6 82.6	.9 83.9 83.9	.9 83.9 83.9	8 85.8 85.8	4 88.4 88.4	.2 94.2 94.2	.2 94.2 94.2	8 94.8 94.8	8 94.8 94.8	8 94.8 94.8	8 94.8 94.8	8 94.8 94.8	.5 95.5 95.5	8 96.8 96.8	.7 98.7 98.7	7.86 7.86 7.	4.66 4.66 4.	4.66 4.66 4.	4 66 4.66 4.	4.66 4.66 4.	4 66 4.66 4.	5.66 5.66 b.	.4 99.4 99.	. 66 4.66 4.	.4 99.4 99.	.4 99.4 99.	.4 99.4 99.	4.
	•	39.4 39.4	82.6 82.6	82.6 82.6	83.9 83.9	83.9 83.9	85.8 85.8	88.4 88.4	2.46 2.46	94.2 94.2	8.46 8.46	8.46 8.46	8.46 8.46	8.46 8.46	8.46 8.46	95.5 95.5	96.8 96.8	98.7 98.7	7.86 7.86	4.66 4.66	7.66 7.66	99.4 99.4	4.66 4.66	4.66 4.66	4.66 4.66	4.66 4.66	4.66 4.66	4.66 4.66	4.66 4.66	4.66 7.66	99.4
	(FEET)	NO CEILING 31.0	18000 69	0.69 00091 ≤	14000 70.	≥ 12000 70.3	10000	≥ 9000 74.2	.67 0008		OS 0009	0	4500 80	× 4000 80.0	3500 80	0	2500 81	2 2000 82.6	≥ 1800 82.6	1500 63	1200 83	≥ 1000 83.2	900	3	700 83	0	500 83		300 83.	83.	

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TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19 NOURS (1.5.1.) AUG

	0 1	40.0	86.5	86.5	86.5	86.5	86.5	89.7	9116	96.1	3.96	97.4	97.4	98.1	98.1	98.	99.6	1001	1000	1000	1000	1000	100.0	1000	100	100.0	100.0	1000	1000	000		00
	ΛI	0.04	86.5	86.5	86.5	86.5	86.5	89.7	91.6	1.96	96.8	4.16	4.16	98.1	98.1	1.86	4.66	0.00	0.001	0000	0.001	0.001	0000		0000	0.001	0.001		0.001	0.00	•	00.00
	≥ 5/16	40.0	86.5	86.5	86.5	86.5	86.5	89.7	91.6	1096	8.96	97.4	97.4	98.1	98.1	98.7	4.66	0000		0000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000	•	00.00
	7		86.5	86.5	86.5	86.5	86.5	89.7	91.6	1.96	8.96	4.16	4.16	1.86	1.86	1.86	4.66			0.00		00.00	00.00	0.00	00.00	0.00	00.00	0.00	00.00	0.00	•	100.0
	*	0.04	86.5		86.5	86.5	86.5	1068	91.6	1.96	8.96		44.6	98.1	98.1	68.7	4.66		00.00	00.00	00.00				00.00	0.00	00.00	0.00	0 .	000		00
	% Al	0	86.5	86.5	86.5	86.5	86.5	89.7	91.6	1.96	8.96		4.16	1.86	98.1	7.86	4.66	00.00	00.00	0.00	00.00	00.00		00.00	00.00	00.00	00.00	•		000	200	00.00
(\$2	-	40.0	86.5	86.5	86.5	86.5	86.5	89.7	91.6	96.1	8.96	4.46	4.16	1.86	98.1	98.7	4.66	0000		0.00	00.00	0000	00.00	0000	00.00	0000	00.00		0000	000	•	100.00
TUTE MILE	71 7	0.04	86.5	86.5	86.5	86.5	86.5	89.7	91.6	96.1	96.8	4.16	4.16	1.86	96.1	7.86	4.66	00.00	00.00	00.00	0.00	100.00	00.00	00.00	00.00	00.00	00.00	10.00	00.00		•	0.0010
VISIBILITY (STATUTE MILES)	%1 ≤	0.05	86.5	86.5	86.5	86.5	86.5	89.7	91.6	1 .96	96.8	4.76	4.16	98.1	98.1	98.7	4.66	00.00	00.00	00.00	.00	0	00.00	00.00	00.00	00.00	00.00	00.00	00.00	000		00.00
	12.2	0.04	86.5	86.5	86.5	86.5	86.5	89.7	91.6	1.96	96.8	4.16	4.16	98.1	1.86	1.86	4.66	0.00	00.00	00.00	0000	0.00	00.00	00.00	00.00	0.00	00.00	0000	00.00	000	000	00.00
	≥ 2%	0.04	86.5	86.5	86.5	86.5	86.5	89.7	91.6	1.96	96.8	4.46	4.16	98.1	98.1	98.7	4.66	00.00	00	00.00	0.00	00.00	00.00	00.00	00.00	00.00	00.00	0.00	00.00	00.00	000	00.00
	£ 41	40.0	86.5	86.5	86.5	86.5	86.5	89.7	91.6	1.96	8.96	4.70	4.16	1.86	98.1	7.86	4.66	100.00	100.001	100.00	00.00	0000	00.00	00.00	100.00	0.00	0000	0.00	0.00	0.00	000	100.00
	4	0.04	86.5	86.5	86.5	86.5	86.5	89.7	91.6	1.96	96.8	4.16	4.16	1.86	98.1	1.86	4.66	0.00	100.00	0.00	100.00	0.001	00.00	0.001	00.001	0.00	00.00	0.001	0.00	0.00	0.00	0.00
	2 5	0.0%	86.5	86.5	86.5		36.5	89.7	91.6	1.96	8.96	4.16	97.4	98.1	98.1	98.7	4.66	0.001	100.0	100.001	100.0			100.0	10000	100.0	100.00	0	100.0	0	3	100.0
	9	38.7							89.7						1.96		97.4	98.1	-	-	98.1	-	-	-	-		-		-		-	8.1
	5 7	19.4	36.1	30.1		36.1	36.1	36.8	37.4		40.0				40.7		41.3							41.3		41.3	41.3	1.	-	41.3	•	41.3
CEILING	(FEET)	NO CEILING	> 20000	18000	00091 ~		12000		0006 ~		000	1	2000		4000		3000		7 2000		1500		1000	006	008 A		009	> 500		88		VIVI 80

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 HOURS (L S.T.) AUG

TOTAL NUMBER OF OBSERVATIONS

155

**3** 

11706

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS (LST.) AUG

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0

TOTAL NUMBER OF OBSERVATIONS

1240

SMOS

11706 STATION

### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01 HOURS (1 S T.) SEP

20

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	Al	72	6	6	5	9	6	6	9	96	96	96	96	96	96	96	96	6	96	96	98	6	001	001	001	001	801	001	001	001	001	000	;
	7,	0	3	.3	3	3	3		0	0	0	0	0	Gi		-	-	~		-	1		0	0	0	0	0	0	0	0	0	00	3
	AI	12	16	61	16	16	16	6	46	96	96		96	76	96	96	96	16	86	86		86	00	00	00	00	00	8	00	8	00	000	3
	_	0	3	3	m	3	6	60	0	_		0	_	0		-	~	3	~	-	-	-	0	0	6	10	0	0	0	-	-	00	1
	5/16	2.	-	1:	-	-	-	3	•	. 9	. 9	.9		9		9	.9	-	8		8.	8				.0	0	0	0		0	00	2
	AI	_	0	6	0	0	0	0	3				0	0	0	0	0	6	0	0	0	0	2	2	2	10	2	2	2	2	-	90	?
	2			. 3						0				0				.3						0				0	0	0		00	•
	AI	72	9	6	6	6	6	93	94	96	96	96	6	96	6	96	96	6	86	98	98	98	001	001	801	001	801	001	001	001		000	
		0	3	3	3	3	2	3	0	0	0	0	0	0	-	-	-	2	1	-		-	0	0	0	0	0	0	0	0	0	00	>
	* Al	12	91	91	16	10	91	6	76	96	96	96	96	96	96	96	96	16	86	86	86	86	8	00	00	00	00	00	8	00		000	3
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	-			.3	e.	w			•		0	0											0	0	0	0	0		0	0	•	0.0	•
(S	AI	72	91	91	91	91	91	93	46	96	96	96	96	96	96	96		16	9	98		98	00	00	00	00		00	00	00	00	00	
VISIBILITY (STATUTE MILES)		0	3	3	6	m	•	3	0	0		0	0	0	-	-	-	m	-	-	~	-	5	0	5	0	5	0	0	0	0	0	5
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	Al	72	91	6	91	16	6	63	5	96		96		96	96	96	96		98		0	96	00	00	00	00	00	00	00	00	00	00	0
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		3	1.3			.3			4.0	6.0		9.0		0.9		6.1		1.3	. 3	8.		8.		6	9.3	6	9.3	6	6	6	6	9.0	
	ΛI	7	6	6	6	0	0	0	6	6	6	6	6	6	6	6		0	6		6	6	6	6	Č	6	6	6	ŏ	ó	6	6	
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	Al	72	16	16	6	6	16	66	76	96	96	96	96	96	96	96	96	26	98		86	86	66	66	66	66	66	66	66	66	66	66	
		0	2	3	•	3	m	3	0	3	~	•	3	m	0	0	0	1	0	0	0	0	~	-	~	-	1		~	-	1		
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CEILING	FE	NO CEILING	≥ 20000		2		2	1 -	٨١		I AI	1	i Al		i Ai	1	1 AI	1	١٨١		IAI		141		٨١		I A I		IAI		AI	AIA	
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TOTAL NUMBER OF OBSERVATIONS

1010

SOWS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

7

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

SEP HONTH O4 HOURS (LST.)

	٨١	73.	92.	92.	92.7	92.	92.7	93.	94.0	96	96	.96	96	.96	.96	.96	.96	-	99.	66	100	-	-	-	-	-	-	-	-	-	001	000	
	VI 74	73.3	92.7	92.7	92.7	92.7	92.7	93.3	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	98.0	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	000	0000	
	≥ 5/16	73.3	92.7	92.7	92.7	92.7	92.7	93.3	0.46	96.7	96.7	96.7	7.96	96.7	96.7	96.7	96.7	98.0	99.3	66.3	10000	0	100.0	0	100.0	0	10000	0000	0	0.001	0	0000	
	% Al	73.3	92.7	92.7	92.7	92.7	92.7	93.3	0.46	46.7	1096		1096	96.7	1.96		7.96	98.0	66.3	66.3	0.00	0.00	00.00	0.00	00.00	0.00	0.00	0.00	0000	0000	000	000	
	*	73.3	92.7	92.7	92.7	92.7	92.7	63.3	0.46	1.96	196.7	196	196.7	196	26.7	196.7	1006	0.86	66.3	6.66	0000		0.00		00.00		00.00			0.00	000	000	
	% Al	73.3	92.7	1.76	92.7	1.26	1.26	63.3	0.46	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	0.86	66.3	66.3	00.00		00.00	00.00	00.00	10.00	00.00	•	00.00	10.00	000	000	
(5	-	73.3	92.7	92.7	7.26	92.7	92.7	63.3	0.46	7.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	0.86		6.66	10.00	10.00	10.00	10.00	10.00	10.00	00.00	10.00	00.00			0.00	
TUTE MILE	7 1 %	73.3	92.7	92.7	92.7	7.76	12.7	93.3	0.46	1.96	1.9	2.9	1.0	1.0	4.1		6.7	98.0	66.3	66.3	00.00	10.0	0	00.00	00.00	0	00.00	10.0	00.00	10.0	0.0	0000	
VISIBILITY (STATUTE MILES)	۲۱ ۲۷	73.3	92.7	92.7	92.7	92.7	92.7	93.3	0.46	1.96	1.9	1.96	1.96	1.96	1.96	1.96	1.96	0.86	6.3	8.66	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.0	0 0	00000	
VISIB	2 4	3.3	-	65.7	92.7	92.7	92.7	63.3	0.46	1.96	1.9	1.0	.7	2.9	. 7	4.4	1	0	100	6.66	10.00	10.00	0	00.00	00.00	10.00	10.00	10.00	00.00	10.	0	00.00	
	≥ 2%	73.3	92.7	92.7	92.7	92.7	92.7	93.3	0.46	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	0.86		66.3	10.00	10.00	10.00	00.01	00.00	10.00	10.00	4	10.00	00.00	0000	0000	
	e Al	73.3		92.7	7.76	1.26	92.7	63.3	0.46	1.96	1.96	1.96		1.96	1.06	1.96	1.96	0.86	66.3	66.3	10.00		00.00	10.00	10.00	10.00	00.00	10.00	00.00	•	00.00	00.00	
	4	3.3	2.7	92.7	92.7	92.7	7.26	63.3	0.46	1.96	1.96	1.96	1.96	1.96	2.96	1.96	1.96	0	· .	66.3	10.00	10.00	10.00	00.00	0	00.00	10.00	10.	10.00	0	0	00.00	
	\$ 1	73.3	2.7	2.7	1.26	1.76	7.76	3.3	0.46	2.96	1.96	1.9	1.9	1.96	2005	1.96	1.0	0.8	6.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	000	1
	<b>9</b>	72.7	0	0	0	O	0	~	0	O	0	0	0	O	0	0	0	0	0	0	-	98.710	-	98.710				14.86		98.71		98.710	
	0 1	16.0	.3	9	•	3	.3	0	10	1	3	~	~	3	~	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.0	
CEILING	(FEET)	CEILING	IN 20000	18000	00091 ≤	14000	2 12000	10000	0000	9008	2 7000	0009	2000	4500	4000	3500	3000	2500	2000	1800	1500	1200	0001	8	800	200	909	200	400	300	88	80	1

TOTAL NUMBER OF OBSERVATIONS

5

0

DIRNAVOCEANMET SN

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY,

07 HOURS (1.5.T.)

200

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	0	1.0	.3	9.3	9.3	0.0	7.0	3.3	.3	.3	8.0	3.0	9.0	3.0	3.0	3.7	3.7	.3	9.3	.3	.3	.3	0:0	0.0	0.0	000	0:0	0.0	0:	0:0	000	0.0	0:0
	AI .	o		8	80	90	ŏ	0		0	6	6	5	96	õ	õ	5	66	0	66	66	66	100	001	001	001	001	ŏ	8	ŏ	ŏ	ŏ	ŏ
	7		.3	•	.3	•						0				1.7		.3		.3		.3	000	0.0	0:	0	0	00	0	0	0	0	000
	AI	90	89	83	8	06	90		6	44	86	98	86			96	86	66	6	66	66	66	100	001	001	001	100	001	001	8	001	001	001
	5/16					0		.3	.3	.3	0.	0.	0.	0.	0.		-			.3	.3		.0		•		0	0	0	0		0.	
	VI V			83	89	90	80	6	66	97	98				98			66		66	66	66	00	001	00	00	8	00	8	8	8	00	8
	2				0	0				3	0	0	0	0	0		-	4		•		3	0	0	0	0	0	0	0	0	0	0	0
	Al	9		83	89	90	90	63	93	16	98	86	98	98	98	86	98		66	66	66	66	00	00	00	00	8	00	8	00	8	00	00
	*	-	3	3	.3	0	1				0	0	0	0	0		1		3	3	-	3	0	0	0	0	0	0	0	0	0	0	0
	AI	09	83		39	06	6	63	63	16		86		86		86	86		66	66	66	66	00	00	00	00	00	8	00	00	8	00	00
		-	3	3	m	0	7	3	3		0	0	0	0	0	1	~	100	_	3	3	=	0	0	0	0	6	0	0	0	0	0	0
	AI X		83	60	89.	90.	90.		93.	97.	86	86	86	86	86	86	98	66	66	66	66	66	00	00	00	00	00	00	00	00	00	00	00
	_	1	~	m	0	0	~		3			0	0	C	0	~	-		3	m		m	0	10	6	-	0	0	4	0	0	0	6
_	AI.			68	.68	90.		93.		. 16	8	98.		98.		98.	98	66	66		66		00	00	00	00	.00	.00	.00	.00	00	00	00
AILES	-	7	3	3		_	2	-	3	6		-	0	0	-	7	~	3	9	6	3	3	010	010	-	010	-	010	-	-	0	010	010
VISIBILITY (STATUTE MILES)	7	0			6	0	0	3	3		8	8			8		8	6		6			.00	•	00				00		0	0	0
STAT		2	20	20	8	6 0		3 6		3		6 0	6	6	0	6 1	6	9	8	0	3	6	010	010	010	010	010	010	010	010	010	2	200
¥.	VI %	0		6	6	0	0	3.		7.	8.	8.	8	8.	•	. 8		6			6	6	0	0	0	0	00.	0	0		0	0	0
ISIBIL	^1	0	-		8	6			5	6	0	0		6		0	0	-			0	0	10	010	10	50	-	100	10	0	5	100	10
>	N Al		9.3	•	9.3	•	1.0	•	3.3		8.0	8.0	8.0	8.0	8.0	8 . 7	8	•	6.6	•	9.3	6	0.0	0.0	0.0	0.0		0.0		0.0	0	0.0	9.0
		9	æ	20	00	0	6	0	0	0	0	6	9	5	0	5	0	6	0	0	0	9	10	100	-	100	100	100	-	100	0	07	10
	21/2		•		9.3	0.0	7.0		3.3	7.3	8.0	8.0		8.0	8.0	8.7		6.3		9.3	•		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ΛI	0			8	6	Š	0	0	6	5			5					ŏ			6	100	100	ŏ	ŏ	č	O	Š	ŏ	ŏ	ŏ	č
	е п			.3	.3			.3	.3	.3				0		1.7	1:1		.3	.3			0:	0.1	0:	0	0:		0				0:
	ΛI			88	89		90	66	93	16	98	86	98	96			86	56	66	66	56	66	100	001	100	100	100	100	100	100	100	100	100
	•	. 7				.0	. 7	. 3	. 3	3	.0	0.	0.	0.	.0	. 7	. 1	.3		.3	. 3		•0	0.	0.	0.	0.	0.	0	0.		0.	0.
	Al			89	89	90	90	63	93	16	6	86	98	98	98	98	96	66	66	66	66	66	100	001	001	001	001	001	100	001	00	001	001
	9	1.		0		0.	. 7	3	.3	.3	0	0	0	0	0	.7	1.		3		.3		0	0.	0	0	0	0.	0	0	0	0	0
	AI	90	68	80	89	06	90	66	66	16	86	86	86	86	96	86	86	66	66	66	66	66	00	00	00	00	00	00	00	00	00	00	00
	•			~		.3	0				6	6		.3	3	0	0		-			-		3	.3	3		.31				.3	
	Al	09	8	8	88	68	06	35	26	96	16	16	16	16	16	98	86	86	86	86	86	96	66	66	66	66	66	66	66	66	66	66	66
	_	3	-		-									_			3	-	3		_	_			_			_			_	_	.3
	VI 5	53	6	19	19	18	80	82	82	86.	86	96	86	86	86	87	87.	87	87.	87	18	87	87	83	87	83	87	87	87	87	87	8 7	87.
		-	+	_									_						-			-										_	
CEILING	EET)	NO CEILING	20002	18000	16000	4000	12000	0000	900	8000	7000	9009	2000	4500	4000	3500	3000	2500	2000	1800	1500	1200	8	8	8	8	8	500	400	38	8	8	•
Ü	•	ON I	N	AI	٨١	٨١	۸ı		۸I		AI	Al	ΑI	A	AI	Al	M	Al	Al	AI	٨I	Al	M	Al	Al	Al	M	Al	Al	AI	AI	Al	AI
		-	_	-	_	_	-	-	_	_	_	_		_	-	_	-	_	_	_	-	_	_	-	-	_	_	-	_	-	_	_	_

0 0 0 0 0 0 0 0

TOTAL NUMBER OF OBSERVATIONS

150

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUEA

73-77

SEP

1989

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 HOURS (1.5.7.)

CEILING							VISI	BILITY (ST.	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2 41	۸I	49 A1	AI AI	N AI	2 2%	7 1	VI VI	VI 71	- AI	% Al	* 1	Z AI	2 5/16	N AI	٨١
	0				5	2	55.3	5		8	5	55.			5	55.3
≥ 20000	-		88.0		•		. 8	88.0	88.0			88.	88.0		88.0	88.0
	-			00	8			8			8	88.		88.0	8	88.0
1 16000	81.3	88.0	88.0	88.0	88.0	88.0	88.0		88.0	88.0		88.		88.0	0.88	88.0
	-			8	8	8		8	8		8	88.	88.0	8		88.0
≥ 12000	2		89.3		89.3	89.3	89.3	89.3	89.3	89.3	•	89.3	88.3	89.3	89.3	89.3
			92.0	0.26		95.0		92.0	3	92.0	92.0	92.0	92.0	2	3	92.0
0006 AI	3		92.0	~	92.0	2	92.0					5.	2	•	2	92.0
				4.7	*	1.76				94.7		*		4	3	4.7
7000	88.0		65.3			95.3	5	95.3	3	95.3	3	95.3		95.3	95.3	95.3
1			95.3	8			5	65.3	-				65.3			95.3
2000	00		95.3	95.3	95.3	95.3		*	95.3		5	95.		95.3		95.3
	8		95.3	5		5						95.	95.3	95.3	95.3	95.3
141	8		95.3	5	:	98.3		95.3	95.3	\$	3	0	95.3	95.3		95.3
	8		0.96	.0		9	9	9	0			.96	0.96	0.96		0.96
3000	88.7		0.96	0.96		0.96	0.96	0.96		•	0.96	.95	0.96	.9		0.96
	0		7.86	00	7.86	8			8	8		6		8		98.7
1 2000	:		66.3		66.3	6		6				_				86.66
1	61.3	66.3	6.66	66.3	66.3	66.3	6.66	66.3	66.3	66.3		0	66.3	66.3	66.3	66.3
1500	-		66.3	6		6	6		99.3	6				86.66		86.3
	:		666	6	66.3		6	66.3	66.3	66.3		0	66.3	66.3		66.3
1000	91.3	86.66	86.66	86.3	6	66.3		6	6	6	66.3	_		66.3	86.66	66.66
	-		66.3		6		6	66.3				0	66.3	66.3		66.3
8 Al	:		66.3	86.3		6		8.66	99.3	66.3		99.3		0.001		0.00
	91.3	6.66	66.3	66.3	66.3	66.3			99.3					0.001	0.00	0.00
8	91.3		66.3	99.3	66.3	66.3		99.3	86.3	6			0	0.001	100001	0.00
	:				•				66.3	66.3	66.3		100.00	10000	00.00	0.00
1 400	91.3	66.3	99.3	86.3	88.3	66.3	66.3	86.3	86.3	66.3	6	_	0	10000	00.001	0.00
	91.3	66.3		66.3	66.3		66.3	8.66	66.3	66.3		66.3	00.00	100.0	0000	0.00
78	-		6	6	86.3	66.3	6.66	99.3	99.3	66.3	99.3	99.3	100.001	0000	100001	0.00
	91.3		6	60.3			6.66	6.66	•	66.3	66.3	66.3	100.00	00001	00001	0.00
٨١	91.3	66.3	666	66.3	66.3	66.3	66.3	6.66	86.3	66.3	99.3	99.3	00.00	0000	0000	0.00

TOTAL NUMBER OF OBSERVATIONS

150

25.0

SWOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

SEP

200

	0	46.0		83.3	84.0	84.7	0.06	0.06	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	0.86	99.3	86.3	86.3	86.3	99.3	66.66	0.00	0.00	0000	0000	0000	0.00	00.00	0.00	00.00
	NI N	83.3	83.3	83.3	84.0	84.7	0.06	0		95.3		95.3	•	95.3	5	•	0.86	66.66	66.3	66.3	99.3	66.3	66.3	00.00	0.00	00.00	0000	00.00	00.00	00.00	00.00	00.00
	≥ 5/16	83.3				84.7		0.06		3	95.3		5	2	95.3	2	-	8.66			•		66.66	00.00	10.00	0	0000	10.00	00.00	00.00	0.00	00.00
	Z Al	46.0				84.7	0	0.06		3	5.	2	•	5	6.56		8	86.66	66.3	99.3	66.3	66.66	66.66	10.00		00.00	10.00	00.00	10.00	00.00	10.00	00.00
	*	46.0	3		84.0	84.7	0.06	:	4.1	62.3	62.3	698.3	62.3	•		95.3		66.3	66.3		6.66		66.3		10.00		00.00		10.00	00.00	0000	00.00
	% AI	46.0					•	0.06	;	62.3	6.56	•		•	5	62.3	•	6	66.3		66.3		66.3	00.00	10.00	00.00	00.00	00.00	00.00	00.00	10.00	00.00
S)	-	46.0	3		*	84.7	ċ	0.06		è	6.56	3.			w)		8	66.3	6	6	66.3			0	00.00	ò	00.00	00.00	10.00	00.00	100	10.00
VISIBILITY (STATUTE MILES	۷I ۲	946.0	10	83.3	84.0	84.7	•	0.06	•	5	95.3	5	•	3	•	95.3	•	66.3		8.66	6	•	6	99.31	18.66	99.31	\$9.31	99.31	18.66	99.31	16.66	16.46
BILITY (STA	×1 ×	83.9	3		84.0	84.7	0.06	0	4.7	2		3	5		5	95.3	0.86	8.66	6	8.66	8.66	66.3	8.66	6	66.3		66.3	6	66.3	6.66	66.3	97.9
VISII	7 Al	46.0		83.3		84.7	0.06	0.06			5	6.56		'n				6.66		99.3	6	66.3	6	8.66	66.3		66.3		66.3	66.66	66.6	66.3
	> 2%	66.0	3	3			90.0	0	64.7	95.3	68.3			5	5	3	00	66.3	66.3	6	66.3		6	86.66		6		66.3	66.3	66.3	66.3	6.56
	es Al	46.0	3	3		84.7	0.06				3	3		5	62.3	3		66.3		66.66	66.3			86.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	39.3
	4	46.0		83.3		84.7	0.06	0.06	94.7	95.3	62.3	95.3	95.3	95.3	65.3		0.86	66.3		66.3	66.3		66.3				66.3	6	66.3	66.3	66.3	66.3
	SS AI	46.0	3		*	84.7	0.06	90.0			95.3			3	3		8	66.3	6				6			66.3		66.3	66.3		66.3	66.66
	٥ ٨١	46.0		83.3				90.0										99.3		86.66					66.3			66.3	66.3		66.3	
	01 71	41.3				78.0		83.3		88.0					88.0	88.0		91.3		91.3	61.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	1.	91.3	616	91.3
CEILING	(FEET)	NO CEILING		00091		≥ 12000		0006 X		7000		2000	1	4000	1	3000		7 2000		1500		1000		00 Al		9		N 400		200	W 100	

TOTAL NUMBER OF OBSERVATIONS

0

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

SEP

E

16

CEILING					7		VISII	VISIBILITY (STATUTE MILES)	TUTE MILE	S						
(FEET)	5	۸I	\$ 1	1	E AI	2 2%	Z AI	¥1 ¥1	¥1 ¥	- -	% AI	*	Z AI	≥ 5/16	N N	0 11
		10.7	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	1.3	17.3	17.3	17.3
1 20000			3	•		•	•	74.7	*	74.7		1401	14.	1401	•	
18000	010		20.00	15.3		20.07	15.3	20.0	•	13.3		26.07	20.07	20.00	10.3	12.3
	:			•		•	•	•		•	•	•	2	2	000	200
N 14000	•	0.9		100	•	100		100	100	100	•	100	100	100	•	100
≥ 12000	67.3					8.7		•	78.7	78.7			2	8		
	. 4	4.	85.3	85.3	85.3	5.3	85.3	85.3		85.3	3	2	85.3		2	
000 AI				86.0	86.0	0	86.0	0.98	86.0	86.0	86.0	86.0		86.0	86.0	86.0
1	2			0.46	0.46	0.46	0.56		;	0.76	0.46	0.46		0.46		0.46
7000	2	3	0.46		*	0.46	*	0.46	0.46	0.46	94.0	0.46	0.46	94.0	0.46	0.46
1	2			0.46	0.46	0.46		0.46	3	0.76	*	*			*	0.46
2000	N	-	0.96	0.46	0.46		;	0.46	94.0	0.46	0.46	0.46	0.46	94.0	0.46	0.46
	2	3		0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46		0.46	0.46	0.46
141	3		0.46	0.46	0.56	•	;	0.46	0.46	0.46	;	;	0.46	0.46	;	0.46
		3		0.46	0.46	0.46	0.46	0.46		0.46	0.46	0.46	0.46	0.46	;	0.76
3000	3	0.46		4.7	7.46	1.46	*	4.7	*	1.56	7.46	1.56		;	4.1	1.56
> 2500	3		97.3		61.3	81.3	97.3	97.3		97.3						
1 2000				48.7	7.86	98.7		1.86	98.7	48.7	98.7	48.7	98.7	98.7	00	4.86
1800	86.7	98.0	28.1		48.7		48.7		48.7	1000						
- 1	.0			68.7	98.7	99.3	6.66	66.3	66.66				66.3			
> 1200		0.86	48.7		7.86		66.3		6	6	6		86.3			66.3
2 1000	.9	8		68.7	7.86		8.66	66.66	66.3	66.3		99.3	66.3			86.3
0%	86.7	8.	49.7	7.86	1.86	66.3	6.66	8.66	66.3	8.66	66.3	66.3	86.3	86.3	66.3	66.3
00 <b>8</b>	86.7	0.86		1.86	98.71	10.00	10.00	10.00	10.00	00.00	0	0		0.00	100.001	
700	86.7		286	48.7	11.86	10.00	10.00	10.00	10.00	•	0	0	•	.0	0	0.00
% AI		98.0	7.86		98.71	00.00	00.00	00.00	10.00	10.00	0000	0000	00.00	0000	100.00	0.00
200	9		2.86	48.7	14.86	10.00	00.00	10.00	00.00	00.00	•			0.00	10000	0.00
V 400	.0	98.0		7.86	98.71	10.00	00.00	10.00	10.00	00.00	•		00.00	0	100.001	0.00
86 VI		98.0	2.86	98.7	98.71	00.00	10.00	0	0	00.00	0	•-		0		
	•	8			98.71		00.00	00.00	00.00	00.00	0	0	0.00	0	0	0000
8	200.7	98.0		98.7	12.86	00.00	10.00	10.00	00.00		•	0.00	000		100.00	0.00
	0	œ		98.7	98.7	00.00	00.00	00.01	00.00	000	00.00	0000	00.00	0000	0000	00.00

0 0 0 0 0

0

TOTAL NUMBER OF OBSERVATIONS

0

3

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5703 CEILING VERSUS VISIBILITY JAN 7

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CURA

19 HOURS (1.5.T.) SEP

1

Û

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING							VISI	IBILITY (ST.	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	5	9 11	S AI	4	۶ ۱۸	Y 2%	7 7	۲۱ ۲۱%	¥1 Y	- Al	% Al	*	Z AI	≥ 5/16	% AI	٥
NO CEILING	2		24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0		24.0	24.0
N 20000				80.0	80.0	80.0	80.0	0	80.0	0	80.0	80.0	80.0		80.0	80.0
	0		80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	0	0	0		0	80.7
16000	26.7	80.0	80.7	80.7	80.7	80.7	80.7	80.7		•	80.7			80.7	80.7	
			80.7	80.7	80.7	0	80.7	0		•	0	•	0	0	80.7	80.7
> 12000			81.3	81.3	81.3	81.3	81.3		81.3	81.3	-	-	81.3		-	
			88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	1000	8			88.0	88.0
0006			88.0	88.0		68.0		88.0		88.0		88.0		88.0	88.0	
	7.		92.7	92.7	92.7	92.7		92.7		92.7	3	5.	92.7	5	2	92.7
7000	-		93.3			3		93.3	3.			93.3		3	3	93.3
	27.3		•	63.3	63.3	63.3			93.3	93.3	93.3		63.3	93.3	93.3	
2000	-		93.3			3		93.3	3	•	3	93.3	3.	93.3	93.3	93.3
1	-	92.		93.3	3	3.			3.		3.	93.3	3	3.	93.3	93.3
141	27.3	94.		*	*		*		*	*	*				4.7	94.7
	2	. 76		94.7	4.7	94.7	94.7	94.7		4.7	1.76	64.7	4	94.	1.46	24.7
3000	27.3			96.0	0.96	96.0	0.96	0.96	96.0	0.96	0.96		0.96	0	0.96	0.96
	-			98.0	0.86	98.0	0.86	0.86	98.0	0.96	0.86	98.0	8	98.0	98.0	
× 2000	:			99.3	66.3		666		66.66			6	6			66.3
	-				66.3	86.3	66.3	6	6	•	66.3	66.3	6	86.3	99.3	99.3
1500	27.3			99.3	66.3			99.3	6	66.3	•		6	6	•	86.66
	-				69.3	66.3	6.66		6		6	66.3	6	6	•	99.3
1000	27.3				66.3	99.3	8.66	6	6		6	6	6	99.3		99.3
		98.	.66	66.3	66.3	66.3	66.3	66.3	6	66.3	66.3	66.3	•	89.3	666	99.3
08 AI	27.3	98.	-0.01	6	88.3		66.66	6	99.3	100.0	100.0	10000	100.0	100.0	0.001	0000
		98.	.66		66.3	66.3	66.3	99.3		10000	10000		100.0	100.0	0.001	0.00
9	27.3	96		66.3	66.3	6	66.66			100.0	100.0		100.0	100.0	0.001	0000
2 200	7.	.86	.66	86.3		.6	86.66	6		10000	100.0	ò		10000	100.0	0.00
V 400	1.	98.			66.66	66.3	666	99.3		100.0	0.001	0		0	100.0	0000
300	27.3		-		6	66.3	66.3				0	0.001	0	ċ		
	-	98.				66.3	66.3		66.3	0.001	0.001	ò	•	0	0.001	
VI 8	27.3	98.7	6.66	6	6					ċ	0000	•	100.0		0.001	0000
٨١	-	98.7	86.66	66.3	66.3	66.3	66.3	99.3	99.3	0.001	0.001	100.0	0.001	100.0	0000	00.00

0 0

0.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

SEP

900

	٨١	.0	90.0	000	90.0	90.0	0.7	4.0	4.0	6.7		6.7	6.7	96.7	98.0	98.0	98.0	8.7	9.3	6.6	66.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	00.00	00	000
		10	0	6 0		-	7	6 0	0	2	1 9	1 9	1 9	6 2	0	60	-	6 2	3	9	3	9	010	010	010	010	010	010	900	-	010	0000
	AI	.99	.06	90.	06	06		. 46		.96	.96	.96	96	.96	98.	98.	98.	.86	66	.66	.66	.66	00	00	00	00	00	00	00		00	0000
	•	-	0	-	0	-	1	0	_		~	2	2	2	00	0	0	1	3	6	E	2	0	0	7	010	0	010	0	-	0	0.0
	> 5/16	66	90.	90	90.	90.	90.	94.	94.	96			96	96.	8		98.		66	66		66	00	00	00	00	00	00	00		00	000
	2	1.	0	0	0	0		0	0	-					0	0	0						0	0	0	0	0	0	0	10.	0	00
	Al	99	90	06	90	06	90	56	94	96	96	96	96	96	98	86	98		66		66	66	100	100	100	001	100	001	100	001	00	000
	*		0.0		0.0	0.0	1.0	0.4	4.0	4.9	4.9	6.7	2.9	2.1	9.0	3.0	3.0	3.7	6.6	9.3	9.3	6.6	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0
	AI	99	90		90	06 0	7	0	0	-			0 2	96		-				66 1	8	0	100	-	0100	0010	010	0100	100	07	4	100
	N N	.99	0.06	0.0	0.0	90.0		4.0	*	.0		•	. 9	.0	8.0	8.0	8.0	8		6	66	6	0.0	00.0	0	0.0	0	00.0	0	000	0.0	0000
		7	0	6	0	-	6	6 0	6	2	6	1	7	2	0	60	0	6 2	8	3	3	3	010	-	010	010	9	010	010	010	010	010
6	Ā	99	.06	90.	.06	-	90.	. 76	. 76	96		96.	96	96.	98.	98.	98.	98.	.66	.66	.66	.66	.00	.00	.00	.00	.00	.00	.00	.00	.00	000
MILE	7.	1	0	0		0		0		1.		-	1	1	0	0		~	3	3	2	3	10	10.	0	0	10.	10	0	10	0	00
ATUTE	AI.	20	06	06	90	90	90	76	46	96	96	96	96	96	86	86	98	98	66	66	66	66	001	00	001	00	001	00	001	00	00	000
VISIBILITY (STATUTE MILES)	7.		0.		0.			0	0.						0.	0.	0.	1.1	·.			m	0	0	0	0	0	0	0	0.	0.	00
SIBILI	Al	99	90	06	90	90	90	6	76	96		96	96	96	86	86	86		66	66	66	50	100	100	100	100	100	100	-	100	-	100
>	7	66.7	0.06	0.0	0.0	0.0	1.0	0.4		6.7	6.7	6.7	6.7	1.9	8.0	8.0	•	8.7	6.6	6.6	9.3	6.6	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0	0.00
		-		60	0	6	2	0	0	6	0	6	0	6	60	6 0	0	6 1	3	3	3 9	6	010	010	010	010	010	010	010	010	010	010
	12%	66.	90.	.06	90.	90.	.04	. 56	*	96.		96	96.	96.		98.	00	.86		. 66	.66	.66	00	00	00	.00	00	00	00		00	00.
	_	-	0	0	0	0	1	0			7		~	1	0	0	0	1	w		.3	6	010	10	0	0.	6	0	0.	-	0	00
	AI .	99	06	06	06	06	-	.6	46	96	96	96	96	96	85	86	86	86	66	66	66	66	00	00	00	00	00	00	00	00	00	000
			0.	0.	0.	0.		0	0				. 7		0	0.	0.				. 3	.3	0.	0.	0	0.	0	0	0.	0.	0.	00
	AI	99	06	90	90	90	80	76	94	96	96	96	96	96	98	86	9	86	66	66	66	6	100	100	100	100	100	100	100	-	=	100
	40 A1	6.7	0.0	0.0		0.0	7.0	4.0		6.7	1.9	1.0	6.7	6.7	8.0	8.0	8.0	8.7	6.6	6.6	9.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0
		-	0	3 9		3	60	-	3		6			1	3	-	3	6 0	10	10		4	10	10		310		01	10	07	01	310
	A)						90.												. 86	. 86	.86	98.	99.3				66					99.
	_	-		-	1	.3		-	3	-	.3	-	.3	-	.3	-	60	.3	-	.3		_	_			_	6	_	3			<b>m</b>
	٧١	16		19	19	19		0	19	0	19	61	19	19	5	19	13	19	19	19	19	19	0	1.9	19	6	19	1.0	19	5		19.
0	_	NG	8	8	8	9	8	2	2	2	2	2	2	9	2	9	2	9	0	2	8	2	8	2	900	2	900	2	400	300	8	80
CEILING	FEET	NO CEILING	7 200		≥ 16000		≥ 12000		000 AI		7000		2 2000		14	1	3000		7 2000		≥ 1500		7 1000		<b>8</b>		8		4	30		MAI
		Ž		Ľ						L							****															7474

150

TOTAL NUMBER OF OBSERVATIONS

4.8

6016

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SEP

### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

ALL HOURS (LST.)

96.5 99.2 86.4 96.3 0.0010.0010.0010.0016.66 0.0010.0010.0010.0016.66 0.0010.0010.0010.0016.66 0.0010.00 0.0010.0010.0010.0016.66 0.0010.0010.0010.0016.66 0.0010.0010.0010.0016.66 95.7 ٨١ 1.66 96.5 99.5 86.3 86.4 41.6 1.96 98.2 99.2 66.3 99.3 1.66 96.3 91.2 95.3 95.7 95.7 95.7 86.7 95.7 ٨I 8096 10.0010.0016.66 86.3 87.4 4.16 96.5 89.2 86.3 66.3 1.66 10.0010.0016.66 86.4 95.3 2.66 91.2 95.7 95.7 95.7 98.2 86.2 96.1 7.66 95.7 86.7 5/16 ٨١ 86.4 86.3 4.16 6.96 96.5 2.66 2.66 95.7 95.7 98.2 99.3 86.2 91.2 95.7 95.3 7.66 86.7 86.4 86.4 95.7 95.7 2 11 4.66 4.16 86.3 66.3 86.2 86.3 96.5 3.66 87.4 87.4 1.96 2.66 91.2 95.3 96.3 95.7 95.7 95.7 4.66 ۸۱ 66.3 6.66 2.66 91.4 2.66 66.3 6.66 6.66 86.2 91.2 96.3 96.5 98.2 7.66 6.66 95.7 95.7 1.96 95.7 7.66 % \ 96.3 95.3 99.2 86.3 6.66 91.2 98.2 96.5 3.66 6.66 99.8 99.8 6.66 8.66 95.7 1.96 7.66 7.56 95.7 95.7 86.7 7.66 95.7 VISIBILITY (STATUTE MILES) 4.66 66.3 8.66 86.3 86.4 91.2 91.4 96.3 96.5 2.66 99.5 66.3 8.66 8.66 98.2 7.66 86.7 95.7 8.66 8.66 95.7 95.7 1.96 17 8.66 96.5 9.66 98.2 5.66 8.66 6.96 1.66 86.3 8.66 66.3 7.66 91.2 95.3 95.7 95.7 96.1 2.66 86.7 95.7 95.7 95.7 86.3 95.3 98.2 2.66 86.2 30.4 4.16 48.7 6.96 6.66 8.66 8.66 51.9 4.78 91.2 7.56 99.5 66.3 8.66 8.66 8.66 96.3 8.66 8.66 8.66 86.7 95.7 1.96 8.66 7.66 2.66 7 86.3 6.56 9.66 86.4 91.4 95.7 1.56 96.1 6.96 96.5 2.66 36.5 66.3 66.3 9.66 86.7 95.7 98.2 4.66 1.66 95.7 1.66 2 2% 91.2 66.5 86.4 87.4 7.56 7.56 6.96 96.5 98.2 2.66 2.66 66.3 66.3 66.66 6.66 66.5 66.5 6.66 99.5 99.5 66.5 86.2 86.7 95.3 1.96 6.66 98.7 86.3 98.7 ۸I 2.66 5.66 86.4 66.3 60.66 6.95 96.5 66.2 91.2 98.2 66.3 99.8 66.5 99.5 7.56 2.66 86.3 86.2 86.7 86.7 95.3 95.7 96.1 95.6 95.7 95.6 95.7 AI 90.7 91.2 92.6 6.56 0.96 3006 99.2 4.66 4.66 7.66 4.66 98.1 1.66 4.66 85.8 86.3 95.6 1.66 51.9 90.9 91.4 95.9 96.4 98.8 99.4 85.9 86.4 99.2 4.66 8.86 11 53.9 95.1 8.46 98.5 98.96 8.86 98.8 98.8 91.6 98.5 95.1 98.6 95.1 95.1 95.7 53.9 55.4 53.4 48.3 55.4 55.4 55.4 48.0 2.64 51.3 53.9 53.9 54.5 55.1 55.4 53.9 55.4 55.4 54.1 40 CEILING 80 VI VI 0008 0008 0008 (FEET) 20000 12000 2000 2000 3200 2500 1800 1200 88 4500 88 88 88 AI AI 11 11 AI AI AI AI AI AI AI AI ALAI AI AI MAIA AI AI AI AI AI AI

TOTAL NUMBER OF OBSERVATIONS

1200

(3)

0

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

100

01 HOURS (1 S.T.)

	AI	20	83.	83	83.	83.	83.	85.	86.	. 96	. 56	. 76	96	96	96	96	96		.66	66	.66	66	00	00	00	00	00	00	00	00	00	00	00
	NI %	70.3	83.2	83.2	83.2	83.2	83.2	85.8	86.5		8 . 56	:	1.96	1.96		8.96	8.96	4.66	4.66	7.66	4.66	4.66	100.001	100001	100.001	10.001	100.001	100001	100.00	100001	100.001	0.00	100.001
	≥ 5/16	70.3	83.2	83.2	83.2	83.2	83.2	85.8	86.5	94.2	94.8	8.76	96.1	96.1		96.8		4.66	4.66	4.66	4.66	4.66	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	0.001	100.0
	Z Al	70.3	83.	83.	83.	co	•	5.		*	8.46			1.96	96.1	96.8	96.8	4.66	4.66	4.66	4.66	4.66	100.0	100.0	100.0	100.0	100.0	0.001	100.0	0.001	100.0	0.001	0.001
	* AI	-	83.	83.	83.	83.	83.	00	86.	. 76	94.	. 76			•	8.96			4.66		99.4	4.66	100.0	100.0	10000	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0
	X Al	_	83.	83.	83.	•	83.2	5	86.5		94.8	94.		1.96		-		-		-	4.66	4.66	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ILES)	Ā	1	83.		83.			85.8			8.46	94.	0	96.	96.1	96.8		7.66	-	4.66	4.66	4.66	100.0	100.0	10000	100.0	10000	10000	100.0	0	100.0	-	100.0
VISIBILITY (STATUTE MILES)	Y1 %	-	83.	83.	30	•	83.	œ	86.	. 46	94.8	94.		96.		-	96.	_	0	0	99.4	4.66	100.0	100.0	100.0	-	-	100	100.0	00	100.0	0.001	100.0
SIBILITY (S	۲۱ ۲۱	70.3	83.		83.	20		85.	20	94.	ò	94.	9	96.1		96.	0	66		66	0	96.4	100.	100.0	0	100	100.0	0.001	100.0	0	100.	0	100.0
>	Z AI	1	83.	3	•				. 9	*	-	6	.96	0		0	96.	0	66.	-		9.66	10000	0	0	100.0	100.0		10000		100	•.	100.0
	≥ 2%	-	63.		63.2	83.2	83.2	85.8		-		. 76	6	96.1		96.8	96.	4.66	4.66	4.66	6	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100.0	100.0	100.0
	ε Al	-	83.	83.	83.	83.	83.	85.	90	. 46		5	96	96.1	96.1	0	0	6	4.66	4.66		4.66	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100	100.0		100.0
	AI	_	63.	83.	83.2	83.	83.2	85.	86.5	. 56		. 76	96.1	96.1	96.1	96.8		4.66	4.66	\$ 66	4.66	7.66	10000	100.0	100.0	100.0	10000	100.0	1000	C	0.001	100.0	100.0
	AI	70.	60	83		83.	83.	85.	86.	. 46		1		1 96.1	0	0		G.	1.66	7.60		66	100.0	100.0	10	01	2	-	10	10000	2	-	100.0
	۸I	-	3	83	83	83	80	8	8	93	36	94	95	95	95	96	96	6		-	_	-		4.66		1		1	66				99.4
	21	14.	16.8	16.8	15.8	10.8	16.8	17.4	17.4	17.4	18.1	18.1	00	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	1.89	18.1	18.1	18.1	18.1	18.1	18.1	18.1		13		18.1
CEILING	(FEET)		1 20000		V 16000		≥ 12000	1	000 AI		700	1	2000	1	141		3000		> 2000	1	1500		1 1		8		8		8		70	8	٨١

TOTAL NUMBER OF OBSERVATIONS

155

0 =

0

0

0

**CEILING VERSUS VISIBILITY** 

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

YEARS

SHOOM

1000

HOURS (LS.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

							VISI	BILITY (ST.	VISIBILITY (STATUTE MILES)	ES)							
(FEET)	5	41	S) Al	AI	N AI	≥ 2%	1 A	YI %	¥1 Y	- AI	% Al	*	VI VI	> 5/16	AI 9	Al	0
NO CEILING	65			74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.	74.	2 74.	2 74.	2 74	2
> 20000	-		89.0	89.0	89.0	0.68	89.0	89.0	89.0	89.0	89.0	89.	89.	0 89.	8	8	0.
	7.			0.68	89.0	89.0	6	0.68	89.0	89.0	89.0	6	89.	.68 0	0 89.	0 89	00
16000	17.4		0.68	89.0	89.0	89.0	89.0		•	89.0	89.0	89.		.68 0	0 89.	0 89	0.
				0.68	89.0	89.0		89.0		89.0	89.0	.68	89.	.68 0	0 89.	0 89	0.
12000				89.0	89.0	89.0	89.0		0.68		89.0	89.	89.	68 0	0 89.	0 89	0.
1	-			92.3	92.3	92.3				92.3		92.	0	3 92.	3 92.	3 92	
000	17.4	92.3	92.3	92.3	92.3	92.3	65.3	92.3	92.3	92.3	92.3	92.	3 92.3	3 92.	3 92.	3 92	. 3
	17.4			94.8	8.46	8.76	8.46	94.8	94.8	8.46	94.8	. 76	94.		8 94.		. 8
700	17.4		94.8	94.8	8.46	8.76	8.76	8.46	8.46	94.8	8.46	. 76	8 94.6	8 94.	8 94.	8 94	. 8
	-			8.46	8.76	8.76	8.76	8.46	94.8	8.76	8.46	. 76	. 56	8 94.	8 94.	_	. 8
2000	-		94.8	8.96	*	94.8		8.46	8.46	94.8	8.46	94.	•	8 94.	8 94.		
	2			8.46	8.96	8.46	8.76	8.46	94.8	94.8	8.46	94.	*	8 94.		8 94	. 3
141			8.46	8.46	8.76	8.46	8.76	8.46	8.46	8.56	94.8	94.	8 94.8	8 94.	8 94.	8 94	. 8
1	1			8.76	8.76	8.46	8.76	94.8	8.76	8.76	94.8	. 76	;	8 94.		6 8	00
3000			94.8	94.8	8.46	94.8		8.46	•	8.76	8.46	. 76	;	8 94.	œ	8	8
1			4.16	4.76	4.76	4.16	4.16	4.76	97.4	4.76	97.4	97.	97.	4 97.	4 97.	4 97	• 4
7000	17.4			99.41	100.00	100.00	100.0	100.00	0.001	0.001	100	1000	0100	0010	0010	010	0.0
1			4.66	4.66	100.001	0.001	100.00	0.001	0.001	0000	100	100.0	01	0010	0100	0100	0.0
1500			4.66	99.4	100.001	100.0	100.00	100.00	00.00	00001	100.0		-	0010	0010	0010	0.0
			4.66	4.66		0.001	100.0	0.001		0.001	0001	100.0	100	0100	0100	0100	0.0
1000	17.4	4.66	4.66	99.4	100.00	100.00		100.00	0.001	0.001	100	1000		0100	0010	0100	0.
		4.66	4.66	7.66	0.001	0.001	100.01	0.001	0.001	0000	000	0	01	0010	0010	0010	0
8		4.66	4.66	99.41	100.00	0.001		100.00	0.001	0.001	1001	1000	0100	0010	0010	0100	0.0
		4.66	4.66	4.66	0.001	0.001	10000	00.00	0000	0.001	100.0	1000	100	0010	0100	0010	0.0
8	-	4.66	4.66	99.4	100.00	100.0		100.00	0.001	0.001	1001	100.0	0100.0	0010	0010	0100	0.0
	-	4.66	4.66	4.66	0.001	0000		0.001	0.001	100.0	0.001	100	100	0010	0000	0010	0.0
140		4.66	4.66	4.66	100.00	100.0	100.001	0.00	100.0	100.0	1001	0	100	-	-	0100	0
	17.4		4.66		100.001	100.0	100.0	0.001	0.001	00001	0.001	100		0000	0010	4	000
30	17.4	9.66	4.66	99.4	100.00	100.0	100.0	00.00	100.0	100.0	1001	100.0	0010	0010	0100	0010	0
	7		4.66	4.06	0.00	0.001	100.00	0.001	0.001	0.001	100.0	10001	0010	0010	0010	000	0.0
٥	17.4	4.66	4.66	4.66	100.0	100.0	10000	100.0	100.0	10000	1001	1001	0000	0010	0100	010	00

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TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DC T

07 HOURS (1.5.T.)

| ≥ 5/16 ≥ ½ | 2.6 62.6 6                                 | 84.5   | 2  |   | .2  | 8  
   
  | 1   |   | _  | _   
  | 0  | 0  | 0  | 3  | 0   |  | 0  |  
   | 0   | -  | _      | =     | -   | 00   | 0  | -   
  | -  | 2   |  | -  | -  |
|------------|--|--|--|---|---
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--
---	---	---	--	--	--
--	---	--	--------	-------	
---	--	--	--	--	---
	0 x	-		œ	85
   
  | 89.   | 3.  |  | 3   
  |  |  | 3  | 2.45   | *   | •  | 1.96   | 7.86   
   | 0.00  | 0.00   | 0.00   | 0000  | •   | 0  | 0000   | 0   
  | 0  | 000   | 0  | 0.00   | 10.00  |
|            | 0 a  | 1  | 4.5  | .3  | .2  | 0.6  
   
  | 4.6   | _   | 3.6  | 3.6   
  | 3.6  | 3.6  | 3.6  | 2.   | 4 . 3   | 6.1  |  | 98.7   
   | 00.00   | 00.00  | 00.00  | 00.00 | 0   | 0  | 10.0   | 0.0   
  | 0.0  | 0.0   | 0.0  | 00.00  | 10.00  |
| VI Z       | 2.6  | 4.5  | 4.5  | 84.5  |   | 0.6  
   
  | 1.6   | 3.6   | 3.6  | 3.6   
  | 3.6  | 3.6  | 3.6  | 7.4  | 0   | 7  |  | 1.86   
   | 10.0  | 0.01   | 00.00  | 0     | 0   | 0  | 0  | 0   
  | 0.0  | 0.0   | 0  | 0.0  | 00.00  |
| *          |  |  |  | 84.5  | 85.2  | 6  
   
  | 4.6   | 3.6   | 3.6  | 3   
  |  | 3.6  | 3.6  | 2.5  | 4 - 8   | 6.1  | 8.7  | 2.86   
   | 10.00   | 10.0   | 0.0    | 0.0   | 0.0   | 0.0  | 0  | 0   
  | 0.0  | 0.0   | 0  | 10.0   | 00.00  |
| %<br>Al    | 2.   | ,  | 4  | ;   | S   | 6  
   
  | 6   | 3   | 3  | 3.  
  | è  | 3  | 3  | *  |   |  |  | 1.86   
   | 00.00   | 0  | ò      | 0     | 0   | 0  | 0.0  | 0.0   
  | 0  | 0   |  | 00.00  | 10.00  |
| -<br>AI    | 2  |  |  |   | 3   | •  
   
  |   | 3.  |  | 3.  
  |  | 224  | 200  | *  | *   | 1.96   | 48.7   | 28.7   
   | 00.00   | •  |        |       |   | 0  | •  | •   
  | 0  | ċ   | 0  |  | 10.00  |
| 7 1        | 62.6                                       | . 4  | 4  |   |   |  
   
  | 6   | 93.6  |  |   
  | 3  |  |  | *  | ;   |  | 8  | 7.86   
   | 00.00   | 00.00  | 10.00  |       | 00.00   | 00.00  | 00.00  | 00.00   
  | 00.00  | 0   | •  | 0  | 00.00  |
| ۲۱<br>۲۲   | •  | 1  | 4  |   |   | 6  
   
  | 6   | 3   |  | 3.  
  | 3  | 3.   |  | 4.   |   |  |  | 48.7   
   | 00.00   |  |        |       |   |  |  |   
  |  |   |  | 00.0   | 10.00  |
| 7 A        | 3.   |  | . 3  | ;   |   |  
   
  | .6  | 3.  | 3  |   
  |  |  |  | *  | •   | .0   | *  | 7.86   
   | 00.00   | 0000   | 00.00  | 00.00 | 00.00   | 0000   | 00.00  | 0.00  
  | 0.00   | 0000  | •  | 0.00   | 00.00  |
| ≥ 2%       | 2 4  | 4  | -  |   | 85.2  | 6  
   
  | 6   | 60  | 3  | 3   
  | 200  | 3  |  | . 4  | . 4   |  |  | 98.7   
   | 100.00  | 0  | .0     | •     | 10000   |  |  | 0   
  | 0  | 0   | :  | •  | 10000  |
| ۲۸<br>۱۸   | 2.   | . 4  | *  | ;   | 5   | •  
   
  |   |   | 3  | 3   
  | 3  | *  | 3.   | *  |   | 96.1   | 98.7   | 48.7   
   | 10000   | 0.001  | 100.00 |       |   |  | 0.001  | 0   
  | 0  | •   | 0  | 0  | 0.001  |
| 4 1        | 2.   |  | 4  | 4.  |   | 6  
   
  | .6  | 3   | 93.6   | 3   
  |  | 3  | *  | *  | . 4   | 1.96   | 98.7   |  
   |   | 6  | 6      | 6     | 6   |  | 6  | 6   
  |  |   |  |  | 4.66   |
| ۶۶<br>۸۱   | .29  | 78   | 46   | 84.   | 85  | 68   
   
  | 89.   | .66   | 63.  | . 26  
  | 63.  | .66  | 93   | *  | *   | 1.96   | 98.7   |  
   |   |  |        |       |   | 6  | 0  |   
  |  |   |  |  | 4.66   |
| ۸۱         |  |  |  |   |   |  
   
  | 89.   | 93.   | 93.  |   
  |  |  |  |  | 94.   | 96.  | 98.  | .36  
   | 66  | 66   | .66    | 66    | 66  |  |  |   
  |  |   |  |  | 4.66   |
| 2          | \$ 0 0                                     | 8  | 0  | 0   | 0   | 3  
   
  | . 4   | 1.  | 1.   | . 1   
  | 1.   |  | -  | 88.4   | 9   | 0  | -  | -  
   | -   | -  | -      | -     | -   | -  | -  | 7   
  | -  | -   | -  | -  |  |
|            | 4O CEILING                                 | 1 10000  |  |   |   | 1  
   
  |   |   |  |   
  |  |  |  | 1  |   | 1  |  | 1  
   | 20-   |  |        |       |   |  |  | | | | | | | | | | | | | | | | | | | | | | | | | |
  |  |   | 1  | 8  |  |
|            | 210 26 25 24 23 22% 22 21% 214 21 2% 2% 2% | 210 26 25 24 23 22% 22 21% 21% 21 2% 2% 2% 2% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% | 2 10 26 25 24 23 22% 22 2 1% 2 1% 2 1% 2 2 2 % 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 | E 10         E 6         E 5         E 4         E 3         E 2h         E 1h         E 1 | 210         26         25         24         22         21%         21%         21         2% | 210         26         25         24         23         22h         22         21h         21h         21         24         25 <th< td=""><td>210         26         25         24         23         22h         21h         22h         22h</td><td>≥ 10         ≥ 6         ≥ 7         ≥ 10         ≥ 10         ≥ 11         ≥ 12         ≥ 13         ≥ 13         ≥ 14         ≥ 15         &gt; 15         ≥ 15         &gt; 15         &gt;</td><td>210         26         25         24         23         22h         21         21h         21h         21h         21h         21h         21h         21h         21h         21h         22h         22h</td><td>20         26         25         24         21         21%         21%         21         2%         2</td><td>20         26         25         24         21         21%         21%         21         2%         2</td><td>20         26         25         24         22         21%         21%         21         2%         2</td><td>20         26         25         24         22         21%         21%         21         2%         2</td><td>20         26         25         24         22         21%         21%         21         2%         2</td><td>210         26         25         21k         21k         21k         21k         21k         21k         21k         21k         2k         3k         3k</td><td>210         26         25         24         23         24         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         24         25         62.6</td><td>210         ≥6         ≥6         ≥7         ≥7         ≥10         ≥6         ≥</td><td>210         26         25         24         23         22h         22h         21h         21h         21         2h         <t< td=""><td>26         25         24         23         22h         22         21h         21h         21         21         2h         2h</td><td>20 26 25 24 23 22% 22 2 1% 21% 21% 21% 21% 21% 22% 22%</td><td>20</td><td>20</td><td>210         26         25         21         210         21         210         26         25         27         210         21         22         22         22         22         22         23         24         25         84         5&lt;</td><td>210 26 25 24 23 22% 22 21% 21% 21% 21% 21% 22% 22% 22%</td><td>26         26         27         28&lt;</td><td>210         26         25         24         23         22k         22         21k         22k         22k</td><td>2.0         2.6         2.5         2.4         2.3         2.2%         2.2         2.1%         2.1%         2.1         2.%         6.2.%</td><td>26.         26.         27.</td></t<></td></th<> <td>20 26 25 24 27 27 27 27 27 27 27 27 27 27 27 27 27</td> <td>20         26         25         24         23         236         27         216         216         216         216         216         216         216         216         216         22         216         22         22         216         22         62         84</td> <td>Σθ. 7         Σε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε</td> | 210         26         25         24         23         22h         21h         22h         22h | ≥ 10         ≥ 6         ≥ 7         ≥ 10         ≥ 10         ≥ 11         ≥ 12         ≥ 13         ≥ 13         ≥ 14         ≥ 15         > 15         ≥ 15         > | 210         26         25         24         23         22h         21         21h         21h         21h         21h         21h         21h         21h         21h         21h         22h         22h | 20         26         25         24         21         21%         21%         21         2%         2 | 20         26         25         24         21         21%         21%         21         2%         2 | 20         26         25         24         22         21%         21%         21         2%         2 | 20         26         25         24         22         21%         21%         21         2%         2 | 20         26         25         24         22         21%         21%         21         2%         2 | 210         26         25         21k         21k         21k         21k         21k         21k         21k         21k         2k         3k         3k | 210         26         25         24         23         24         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21         24         25         62.6 | 210         ≥6         ≥6         ≥7         ≥7         ≥10         ≥6         ≥ | 210         26         25         24         23         22h         22h         21h         21h         21         2h         2h <t< td=""><td>26         25         24         23         22h         22         21h         21h         21         21         2h         2h</td><td>20 26 25 24 23 22% 22 2 1% 21% 21% 21% 21% 21% 22% 22%</td><td>20</td><td>20</td><td>210         26         25         21         210         21         210         26         25         27         210         21         22         22         22         22         22         23         24         25         84         5&lt;</td><td>210 26 25 24 23 22% 22 21% 21% 21% 21% 21% 22% 22% 22%</td><td>26         26         27         28&lt;</td><td>210         26         25         24         23         22k         22         21k         22k         22k</td><td>2.0         2.6         2.5         2.4         2.3         2.2%         2.2         2.1%         2.1%         2.1         2.%         6.2.%</td><td>26.         26.         27.</td></t<> | 26         25         24         23         22h         22         21h         21h         21         21         2h         2h | 20 26 25 24 23 22% 22 2 1% 21% 21% 21% 21% 21% 22% 22% | 20     | 20    | 210         26         25         21         210         21         210         26         25         27         210         21         22         22         22         22         22         23         24         25         84         5< | 210 26 25 24 23 22% 22 21% 21% 21% 21% 21% 22% 22% 22% | 26         26         27         28< | 210         26         25         24         23         22k         22         21k         22k         22k | 2.0         2.6         2.5         2.4         2.3         2.2%         2.2         2.1%         2.1%         2.1         2.%         6.2.% | 26.         26.         27. | 20 26 25 24 27 27 27 27 27 27 27 27 27 27 27 27 27 | 20         26         25         24         23         236         27         216         216         216         216         216         216         216         216         216         22         216         22         22         216         22         62         84 | Σθ. 7         Σε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε |

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TOTAL NUMBER OF OBSERVATIONS

155

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# NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) GUANTANAMO BAY, CUBA

10 HOURS (LS.T.) DC.T

	0	8.1	2.6	2.6	5.6	2.6	5.5	0.6	0.6	2.3	5.9	5.9	3.6	3.6	3.6	3.6	4.2	6.1	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000
		5	0	00	00	8	00	8	00	6		0	0	0	0		0	6	0	66	-	100	100	-	-	2	2	2	2	2	2	00
	7	8.1	2.6	•	2.6	2.6	•		0.6	2.3	2.9	2.9	3.6	3.6	3.6	3.6	4.2	6.1	9.4	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	000
	٨١	3	80	80	œ	00	80	00	00	0	0		0	0	6	0	0	6	0	6	0	01	2	2	2	0	2	01	01	01	0	90
	5/16	8	2.6	•	2.6	•	2.6		0.6	•	2.9	2.9	3.6	3.6	3.6	3.6	4.2	6.1	9.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000
	Al	2	8	8	3	00	80	0	0	0	0	6		0		6	ò			ŏ	č		ŏ	-	2	2	2	10	0	2	2	ŏŏ
	2		2.6		2.6		2.6		9.0		2.9	6.3	3.6	3.6	3.6	3.6	4.2	5.1	4.6	4.6	0.0	0.0	0:0	0.0	0.0	0.0	•	0.0	•	0.0		0.0
	AI .	5	8	8	00	00	80	00	8	6	0	6	0	6	0	0	0	6	0	ŏ	ŏ	01	2	01	2	9	2	01	10	9	ŏ	90
	*	8.1	2.6		2.6	2.6		0.6	•		5.9	5.9	3.6	3.6	3.6	3.6	4.2	1.9	4.6	9.6	0.0	0.0	•	0.0			•	•	0.0	•	0	000
	٨١	-		8	8	0	80	30	8	0	0	6	0	6	0	0	0	ŏ	ŏ	ŏ	-	01	-	100	-	0	-	01	10	ŏ.	ŏ	90
	*		2.6		2.6		2.6		0.6	2.3	•	5.9	3.6	3.6	3.6		4.2	6.1	9.4	4.6	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	00
	۸ı		œ	00	00	80	8	æ	0	0	0	0	0.	6	0	0	0	0		6	10	10	-	01	20	10	4	01	100	01	10	90
	-	3.1	2.6	5.6	2.6		2.6		9.0			6.3	3.6		3.6		4.2		4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000
ES	٨١	3	8	12.00		8	8	8			6	6		6	0	3	6	6		6	ŏ	100		ŏ	ŏ	100	100	01	100		ŏ	001
VISIBILITY (STATUTE MILES)	7.7	3.1	2.6		9.		2.6	•	0.6		6.3	6.	3.6		3.6	3.6	2.	•	4.4	4.6			0.0			•	•	0.0		0.0	•	000
TATU	ΛI			8	8	2			8			6		6			94	96		66	001	100	100	001		001	100	001	100		001	000
17 (S	7.		9.	9.		5.5	9.	0.				6.	9.6	9.6	9.6	•	1.2		4.	4.	0.0	0.0	0.	0.0	0.0		0.0	0.0	.0	•	0	00
Sie	ΑI	2	3		82	8	82	89	8	32	6	92	66	6	66	63		96		56	100	100	100	100	100	100	100	100	100		100	000
>	~				9.	9.	9.	0.0	•	•	6.	•	9.5	9.1	9.1	9.6	2.	•	•	* .	0.0	•	0.0	•	0:		0.0		0		•	00
	A1	58	82		80		82		00		92	6			6		76		66	66	100	100	100	100	100	100	100	100	100	100	100	100
	21/2		9.		9.	9.	•		0.	. 3		6.	3.6	9.6	3.6	3.6	1.2	7.5	4.4	4.	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	•	0	000
	ΛI	58	8		82	1000	30	68	68		92		6			6	4	6	66	66	100	100	100	100	100	100	100	001	100	001	001	001
		-	•		9.		9:		0:		6.		9.0	9.6	9.6	•	1.2	1.0		4.	0.0		0:				0.0		•	•.	•	000
	AI		82		82		82		60	26	92	6	63		93			6	66	66	100	100	100	100	100	007	100	001	100		100	100
	-	1.1	9.		9.2	9.5		0.6		. 3	6.	6.	3.6	9.6	9.8	3.6		7.	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000
	٨١		82	8	82	8	82	68	89	92	92	6	6	6	6	0	94	96		56	100	100	100	100	100	100	100	100	100	100	100	100
	50	1.1	9.	0.	9.	9.	9.3	0.0	0.0	3	6.	6.	3.6	3.6	3.5	3.5	1.2	7:	*:	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0	0.0
	AI	5	8	8	8	æ	03	8	8	6	6	26	0	6	9	6	76	96	66	36	150	100	100	100	100	100	100	100	301	100	100	000
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	AI	-		-		-								-		_							_								-	-
	9						0.0																									0.0
	AI	58	80	80	8	8	90	8	8	87	8.7	87	8	88	8	80	8	6	9	36	35	26	92	26	26	26	6	92	36	26	26	<b>26</b>
0	_	SNG	8	8	8	8	8	8	8	2	8	2	8	8	8	8	8	8	0	8	8	8	8	8	900	8	900	200	8	300	8	80
CEILING	(FEET	CEIL	× 20000	180	≥ 16000	140	> 12000		8		700		2000		400		3000		2000		1500		1000									
		2		_^	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	^	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	^	M	^	IAI		IAI	_^	IAI	^	\ \	^	IAI	_^'	۸ı	^	M	٨١	AI.	^1	ΛI	٨١	۸I	AI	^'	ALAI

TOTAL NUMBER OF OBSERVATIONS

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO 8AY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 HOURS (1 S T ) DCT

=

CEILING							VIS	VISIBILITY (STATUTE MILES)	ATUTE MIL	ES)						
(FEET)	2	۸I	N AI	VI 4	۳ ۸۱	1 2%	7	VI 27	71 71	Ā	*	*	Z AI	≥ 5/16	AI	O Al
NO CEILING	43	44.5	44.5	44.5	4	44.5	44.5				44.5		44.5	44.5	44.5	44.5
≥ 20000	73.	76.1	76.1	76.1		76.1		76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
		76.1	76.1	76.1		76.1		76.1	76.1		16.1	16.1	76.1	76.1	76.1	
≥ 16000		76.1	76.1	76.1	76.1	76.1	76.1	76.1		76.1	76.1	76.1	76.1	76.1	76.1	76.1
		76.1	76.1	76.1	76.1	76.1		76.1	76.1		76.1	1691	76.1	76.1	76.1	76.1
≥ 12000		76.1	:	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
		81.9	81.9	-	-	-		-		-	81.9		-		-	
0006		82.6	•	82.6	3	82.6		82.6	3		2.	82.6	82.6		82.6	82.6
		89.0	-	6	6	6	6		0		0.68		6		89.0	89.0
> 7000		89.0	89.0	89.0	6		6		6	6		89.0	89.0			89.0
		0.68		89.0	6	6	6	6	6	6	6				6	89.0
2000		89.0	89.0		6			89.0	6	6	6	89.0	6			89.0
		89.0		89.0	6		6	6			6		6			89.0
1 4000		89.0	:			6				6	6		89.0		6	89.0
		89.0	:	89.0	6		0	6	6	6	6		6		6	89.0
3000	84.5	80.3	:	80.3	60.3	90.3	6.06	80.3	80.3		6006	80.3		91.0		91.0
		8.46	:	94.8	*	•	*		*		2		1.96			1.96
≥ 2000		96.1	1.96	96.1					9	-	1.		1.86		98.1	98.1
7 1800		96.1	:	96.1	.0	96.8	.0	8.96	•		-	4.16	1.86		1.86	98.1
≥ 1500		96.1	1.96	96.1	1.96	. 9	96.8		90.96		4016			98.1		98.1
7 1200		96.1	:	1.96	.0	96.3	.9	8.96			4.16	4.16	98.1	98.1	98.1	1.86
7 1000		8.96	:	96.8	•	:	97.4	4.16	97.4		98.7	7.86			4.66	99.4
8		8.96		96.8		4.46		4.76			48.7	48.7	4.66	4.66	4.66	4.66
N 800		8.96	:	96.8	;			4.16	97.4	*	7.86		4.66	4.66	4.66	4.66
		96.8	:	8.96		97.4		97.4	97.4			4.86	4.66	6	4.66	7.66
000		96.8	:	96.8	90.8	97.4	7.	97.4			7.86	98.7	4.66	4.66	4.66	4.66
200		96.8	:	96.8		4.46		4.76	97.4	4.66			0	0		0.001
		95.8	:	96.8		97.4		97.4	97.4	6		99.41	0	0	0.00	0.001
30		96.8	:	96.8	8.96	97.4	4.16	4.16	4.16		4.66	15.66	00.00	0000	ò	0.001
		96.8	:	96.3	;	97.4	4.16	97.4	4.16	4.66	4.66	99.41	0	0	•	0.001
8	29.7	96.8	96.8	96.8		4.16	4.16	4.76	4.16	7.66	4.66	15.66	00.00	0.00	0.00	0000
	89.7	8.96	•	96.8	96.8	97.4	4.16	4.16	97.4	4.66	4.66	14.66	00.00	00.00	•	0000

TOTAL NUMBER OF OBSERVATIONS

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DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706 STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DC T

0 = 0

16 HOURS (1.5.7.)

0

	٨١	32.	72.	72.	73.6	74.	74.8	80.	81.	88.			89.0		89.0	91.0		04.5	97.4	97.4	99.	66	000	00	00.00	00	000	00	20.00	00	0	9	5
	۸I ۲		2.	72.3	•	74.8	74.8	0.0	1.9	_	0.6	0.6	0.6	0.6	0.6	1.0	3.6	4.2	4.	7.4	4.6	-	00.00	-	-	-	00.00	10.0	00.00	00.00	00.00	00.00	10.00
	≥ 5/16	32.3	72.3	72.3	13.6	8 . 4/	4	0	81.9	00		•	0.68	6		•	93.6	2.46			4.66	4.66	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	0.00	000
	Z AI	.3	72.3	72.3		8.41	4.8	0.0	1.9		0.6	6.6	0.6		0.6	0.	3.6	4.2	4.	4.	4.	4.66	0	0.0	0.0	0.0	0.0	0.0	0.0	0	00.00	0.00	10.0
	*			72.3		14.8	4.8	0	1.9	_	0.6	0.	0.6	0.	0.6	91.0	3.6	4.2		7.4	4.66	4.66	-	-	.0	0.	-	10.	4	00.00	10.00	0.00	2
	≱ Al		2.	72.3	•			0	-	88.4	6		6	6		•	93.6	•	1.	4.16	4.66			00.00	0.01	0	0	10.00	00.00	00.00	10.00	0.00	1
S	- -	32.3	72.3	72.3	73.6	74.8	74.8	0	81.9	8	100000	0.68			0.68		93.6	94.2		4.16		4.66			00.00	10.00		00.00	00.00	10.00	00.00	0000	0000
(STATUTE MILES)	VI %		72.3		73.6	74.8	74.8	0	81.9	98.4	89.0			6	69.0	91.0		•	7.	4.16	4.66	6	00.00	10.00	0	00.00	0	10.00	0	00.00	00.00	0.00	0.00
VISIBILITY (ST.	VI %	32.3	2	72.3		14.8	74.8	0	81.9		89.0	89.0	•	6	89.0	-:	93.6	2.46	-		4.66	4.66	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	000
VISI	N N	32.3	72.3	72.3	73.6	74.8	74.8	0	81.9	88.4		•	89.0		89.0	-	93.6	. 4		4.16	6	4.66	00.00		00.00	00.00	00.00	00.00	00.00	0000	0.00	0.00	0000
	1 2%		2	72.3	73.6	74.8	;		81.9	•	6	0.69		•	89.0	•	•	•	-	4.16		6	00.00	00.00	0	00.00	00.00	0000	00.00	0.00	00.00	00.00	000
	N AI	32.3		72.3	73.6	74.8		ò	81.9	•	89.0	89.0		.6	89.0	91.0	3.	84.5	-	4.76	4.66	6	100.001	0	0	0.001	100.00	0.001	10.00	0.001		0.00	0.00
	VI.	32.3	2	72.3	73.6	74.8	74.8	80.0	81.9	88.4		89.0	89.0	89.0		91.0	93.6	34.5	8.96	8.96	98.1	98.1	7.86	7.86	98.7			7.86		98.7	98.1	7.86	
	S AI	2.	-	•	-	•	73.6	-	-	87.1	NAME.	-	1.	7.	7.	89.7	3	.2.	3.	3.	-	96.8	1	1.		4.26	1.	97.4	-	97.4	4.16	4.10	
	o Al						73.6															96.1										90.00	•
	2	2	6	5	0	-	-	10	.0	-	-	-	:	1.	:	3	6		6	.6			6	0.	6		6		6	89.7		200	
CEILING	(1	NO CEILING	× 20000		00091 ≺		12000		0006		7000		2000		4000		3000		7000		> 1500	1200	≥ 1000		N 800		9	200		300		8	

TOTAL NUMBER OF OBSERVATIONS

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE

19 HOURS (1.S.T.) DCT HONTH

90

0

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILE	(\$)						
(FEET)	0 AI	<b>9</b>	8	4 1	e Al	> 2%	1 2	V1 71	¥1 ¥1	- AI	% AI	* 1	% AI	≥ 5/16	N N	0 11
NO CEILING	-	2		2	2.	2.	2.	2	2	2.	2.	2.	2.	2.	42.	42.6
N 20000	0	0		80.7	0	80.7	80.7		80.7	0	80.7	80.7	80.7		80.	80.7
	0	0		0	0	0	.0	0	0	0		80.7	0	0	80.	80.7
00091 ~	20.7	80.7	80.7	10.1	0	80.7	80.7	0	80.7	ċ	0	0	80.7	80.7		80.7
	0	0		0	0		•	0		0	80.7	80.7	80.7		80.	80.7
≥ 12000	0			ċ	0	80.7	0			ċ	0	0	0	0	80.	80.7
	0	3	83.2	83.2	1	93.5	•	3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
000 AI	0				84.5		84.5	84.5		•	;	*			84.	84.5
	0	7		87.7	87.7	87.7		87.7	87.7	87.7	87.7	87.7		7.	_	87.7
7000		87.1	87.7		87.7	87.7	87.7	-		-	-		-	-	00	87.7
	0	-		-	1:		7.	-	87.7	-	1.		87.7	-	87.	87.7
2000	0			0.68	0.68	89.0	89.0	89.0		89.0	89.0			89.0	89.0	89.0
1	20.7				6	6	6	6	6		89.0		6	89.0	89.	
8	0	89.0		89.7	1.68	89.7	89.7	89.7	89.7	89.7					80	89.7
	0	-		3	92.3	54		92.3	2.		92.3	92.3	92.3	92.3	92.	92.3
3000	0								84.5	2.96	*	+			94.	
1	0	;				95.5		95.5	95.5		95.5		95.5	95.5	95.	95.5
2000	0				98.1				8	*		98.1		8	98.	98.1
	0	.9		00	1.86	96.1	1.86	•	8		8			98.1	•	1.86
1500	0	-						8	48.7		8	98.7			1 98.7	98.7
	0	:		48.7	1.86	98.7	7.86	48.7	48.7	7.86		8	30	98.7	98.7	98.7
0001	0	98.11			100.00	00.00	100.00	100.00	0	00.00		0	100.00		100	0.001
	ò			10.001	10.001	•	0.00		10.00	0000	0	0	0	0	2	0.001
00 <b>8</b>	20.7	98.11	•	100.00	10.00		100.00	10.00	00.00	•	0			0	100	0.001
	20.7	98.11		0	0		100.001	10000	10.00	10.00		0.001	0.001		100	0.001
8	20.7	98.1		10000	10.00	00.00	100.001	100.00	10.00	00.00	0000			100.0	0000	0.00
	20.7	98.1		10000	10.00	00.00	10000		00.00	10.00	0000				-	0.00
8	20.7	98.11		100.001	100.00	00.00	100.001	100.00	10.00	00.00	0000	00.00	100.00	100.0	1000	0.001
38	20.7	1.86	0.001	0	0	0	100.001		0.00	ċ	0		0.00		100	00.00
> 200	20.1		•		100.00	00.00	100.00		00.00	ċ	0	0		0	001	0000
VI 70	20.7	98.11	0.001	•	10.001			10.001	0.00		•	0.00	0.00	0000	0000	0.00
	1002		0.001	0.001	0000	00.00	0000	00.00	00.00	00.00	0000	0.00	000	000	0.001	0.001

TOTAL NUMBER OF OBSERVATIONS

155

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91.6 94.8 8.96

91.6

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96.8 96.8

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### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11706

DC T

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2 5/16

2 A

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

1 2%

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AI

CEILING (FEET)

NO CEILING

8.46 91.6 8.46 95.5 95.5 87.1 87.1 8.46 87.1 89.7 95.5 87.1 87.1 8.46 8.46 87.1 91.6 8.46 95.5 95.5 95.5 65.8 87.1 87.1 87.1 89.7 \* 91.6 95.5 87.1 8.46 95.5 87.1 87.1 8.76 8.46 65.8 95.5 95.5 87.1 89.7 7 91.6 87.1 87.1 8.76 95.5 87.1 89.7 95.5 95.5 87.1 8.76 87.1 8.76 ٨I 94.8 8.46 87.1 87.1 91.6 8.46 95.5 87.1 89.7 77 95.9 91.6 94.8 89.7 65.8 87.1 87.1 8.46 95.5 87.1 87.1 94.8 7 7 7

87.1 8.46 87.1 87.1 91.6 8.76 8.76 87.1 89.7 85.8 67.1

87.1

89.7

91.6

9106

91.0

89.7

89.0

8.1 18.1

87.1

86.5

18.1

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34.5 34.5 34.5 8.46

18.1

18.1 18.1 18.1

2000

AI AI

8.46

94.8 8.56

95.5

95.5 95.5

8.76

18.1

87.1

87.1 87.1 87.1 89.7

86.5

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87.1 87.1

86.5

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VI VI 00081 00081

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65.8

95.5 87.1 87.1 89.7 87.1

96.8 96.8 96.8 8.96 8.96 95.5 1.86 95.5 98.1 96.8 95.5 96.8 95.5 96.8 96.8 8.76 8.76 8.76 95.5 8.96 95.5 95.5 91.6 8.76 8.96 8.46

98.1 4.66 40.66 96.1 95.5 96.8 95.5 8.96 95.5 98.1 95.5 94.8 95.5 95.5

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18.1 18.1

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AIAI

2000

AI AI

4.66 4.66 4.66 4.66 4.66 4.66 4.66 8.96 4.66 96.8 98.1 8.96 8.96

4.06 7.66 98.1 4.66 4.66 4.66 98.1 8.96 1.86 98.1 96.1 18.1

98.1 18.1 18.1 18.1 18.1 18.1 18.1

1800

AI AI

88

AIAI

2000

ALAI

18.1

88

ALAI

20

18.1

88

ALAI

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AIAI

18.1

18.1

18.1

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ALAI

0

TOTAL NUMBER OF OBSERVATIONS

100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0

98.7100.0100.0

18.1

80

ALA

155

92.1 92.1

95.6

1.26

92.1

92.1

92.1

91.9

91.7

91.7

51.9 51.9

51.7

2000

ALAI

92.6 92.6 92.6

95.6

45.4 4.26

3.26

51.9

2000

ALAI

95.6 95.6 95.6

92.5 92.7 92.7 92.7 93.6 93.6

6.16

91.9 91.9

61.6

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NO CEILING

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(FEET)

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ALAI

86.4 86.4 87.3 87.3

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000 000

AI AI

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82.1

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88

AI AI

0

2.66 1.66

7.66 99.4

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ALAI

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1.66 1.66

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54.8

88

AI AI

99.6 99.1

66.3

1.66

7.66

9.66

66.3

1.66 1.66

98.6

54.8 54.8

1200

AIAI

98.8

98.6

98.6

98.2 98.2

54.7 54.7

1500

ALAI

4.66

99.6 99.7

1.66

98.6

98.8

54.8

80

ALAI

(

98.6

88

AI AI

98.6

4.66

66.3

4.66

7.66

CEILING VERSUS VISIBILITY

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

ALL HOURS (LST DC THON

100

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

0.0010.0010.0010.0016.66 99.9 99.9100.0100.0100.0100.0 9.9 99.9100.0100.0100.0100.0 9.9 99.9100.0100.0100.0100.0 0.0010.0010.0010.0016.66 0.0010.0010.0010.0016.66 6.66 6.66 92.6 92.6 86.4 9006 8.86 93.6 93.6 81.9 81.9 1 82.1 82.1 8 82.3 82.3 87.3 616 94.5 8.86 4.66 82.3 92.1 95.6 6.66 6.66 81.9 92.1 81.9 4.66 86.4 61.6 94.5 6.66 6.66 9096 8.86 4.66 6.66 81.9 82.3 92.1 95.6 98.8 87.3 6.66 92.1 2 5/16 4.66 81.9 95.6 90.96 98.8 4.66 6.66 61.6 95.6 64.5 98.7 98.8 6.66 86.4 92.1 92.7 6.66 8.66 81.9 82.1 82.1 82.3 82.3 82.3 82.3 82.3 87.3 6.66 8.66 93.6 93.6 92.1 92.1 ٨I 95.6 91.9 91.9 91.9 95.6 8.66 8.66 81.9 99.8 86.4 94.4 94.4 98.7 66.3 87.3 92.7 66.3 96.5 92.1 \* 8.66 8.66 95.6 66.66 8.66 82.3 82.3 92.6 92.6 92.6 92.6 92.6 92.7 92.7 92.7 93.7 93.6 93.6 93.6 93.6 93.6 93.8 6.96 66.3 6.66 6.66 86.4 86.4 86.4 87.3 92.1 8.66 6.66 7.86 92.1 92.1 98.7 ٨١ 81.9 95.6 87.3 4.46 6.66 56.3 92.1 98.7 98.7 96.5 96.5 66.3 8.66 8.66 99.3 8.66 8.66 8.66 6.66 AF 87.3 98.6 95.6 2.66 92.1 4.46 56.3 91.9 98.6 99.5 7.66 81.9 81.9 82.1 82.1 1.66 1.66 4.66 4.66 4.66 1.66 4.66 92.1 92.1 92.1 ۸۱ 82.1 87.3 98.6 96.5 96.4 86.4 82.3 4.46 1.66 81.9 6116 92.1 95.6 98.6 2.66 7.66 99.5 49.7 7.66 4.66 1.66 7 7

93.6

4.4 94.4 94.4

4.46

94.3 6.96 2.86

94.0

93.2

52.3

52.8 53.7

3500

AI AI

92.3

51.9

4500

AI AI

51.9 92.2

96.5

96.5 96.5

96.5

98.4 98.6 98.6 98.6

99.5 3.66 7.66

99.1 99.2

98.6

98.6 98.6

4.86 99.86

97.7 98.2

54.6

97.7

24.6

2500

AI AI

98.8

4.66

98.8

96.6

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0.1 HOURS (1.5.7.)

2000

NON

CEILING							VIS	VISIBILITY (STATUTE MILES	ATUTE MIL	(ES)						
(FEET)	2	9 11	\$ 1	AI AI	1 3	≥ 2%	2 41	¥1 Y	%1 A	Ā	% AI	* AI	% Al	≥ 5/16	NI NI	٨١
NO CEILING	14.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	0		80.	80.0				80.0
× 20000	16.7	89.3			6	6		6	6	6	89.	6	6	.6	6	89.3
	16.7	89.3		89.3	89.3	89.3	89.3	89.3	6	6	89.		6	6	6	89.3
N 16000	16.7	89.3	89.3	89.3		6		89.3		6	89.		6	6	6	
N 14000		89.3		89.3	89.3	6		89.3	6	6	89.	89.3	6	6	89.3	89.3
> 12000	17.3	0.06		0.06	0	90.0	0		90.0	90.0		0.06	90.0		0.06	90.0
		2.06	2006	7.06		90.7	0	40.4	0	0	.06	4006	0	0		90.7
0006	17.3	40.4	7.06	2.06	0	90.7	40.4	40.7	0	90.7	-06	40.4			90.7	90.7
		0.96	:	0.96	9	•	.0		0		96	0.96	9	.9		96.0
1 7000	16.7	96.0	0.96	0.96	0.96	96.0	0.96	0.96	96.0			96.0	96.0	96.0		0.96
		1.96		1.96		96.7	.9	40.7			96	1.96	9	9		96.7
2000	18.7	96.7	1.96	1.96	.9		1.96	96.7	•	7.96	1.96	96.7	96.7			7.96
1		1.96	2005			96.7					96.7	1.96	96.7		7.96	7.96
141	18.7	1.96	2006	1.96	1.96	96.7	1.96	1006	7.96	96.7		1.96	96.7	•		96.7
1		0.86		98.0	0.86	00	8	0.86			0.86	0.86	98.0	8		98.0
3000	18.7	98.7	2.86		8	98.7	98.7		98.7	98.7				98.7	98.7	98.7
		86.3	66.3	66.3	66.3	66.3		66.3	6	66.3	99.3	66.3	6	6	66.3	99.3
1 2000	19.3	100.001	•	00.00	100.00	100.001	100.001	100.001	100.00		100		100.0	0	100.00	0000
1	19.3	100.001		0.00	0.001	100.00	100.001	100.00	100.0	100.0	100	100.0	100.0	100.0		00.00
1500	19.3	100.001	00.00	0.00	0.001	0	100.001	100.00		•	_			0	100.0	0000
	19.3	100.001		0.00	0.001	.0	100001	100.001	100.00		100			0		0000
1000	19.3	100.001	00.00	00.00	0000	100.001		100.00	100.00	•	•	100.00		•	100.00	00.00
	19.3	100.001	00.00	0.00	0.00	0.001	.0	100.001	0	•	100.0		0	0	0000	0000
00 Al	19.3	100.001	•	00.00	100.00	10000		100.00	100.00	100.0	0	100.0	0			0000
	19.3	100.001	•	00.00	0.00	100.001	100001	100.00	100.00	0.001		0	0	100.0	100.001	0000
009		100.001	00.00	00.00	0.00	0000	100.001	100.00	0	100.0	0		0		100.001	0000
	19.3	100.001		0.00	0.00	0.001	100.001	0.00	0.001	0	0	100.00	0	10000	0.001	00.00
N 400	19.3	100.001	00.00	00.00	0.001	100.00	100.001	100.00	100.0	0.001	•	100.00	•	100.0	100.00	00.00
30	0	100.001	•	0.00	•.	0000	•	0000		-	•.	0.001	0000		0000	000
1		100.00	00.00	00.00	00.00	0.00	0000	100.00	0.001		0.00		0	0000	0000	000
80	100	00-001	0000	000	000	000	0000	000	000	0.00	000	000		0000	000	000
1		2000	•	3	2000	2	2000		2	200		2		2000	2	2

0000

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CUANTANAMO BAY, CUBA

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

04 HOURS (1 S.T.) NON

3

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

93.3 0.46 93.3 93.3 100.010 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 0000 0.0010.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0010 97.3 93.3 97.3 66.3 99.3 93.3 97.3 61.3 6.76 93.3 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 0.46 96.7 ۸۱ 61.3 66.3 97.3 97.3 0.46 97.3 97.3 93.3 93.3 86.66 0.46 96.7 2 5/16 0.46 0.46 66.3 93.3 93.3 97.3 97.3 93.3 97.3 97.3 99.3 96.7 97.3 97.3 2 ٨١ 6.70 97.3 99.3 97.3 97.3 0.46 93.3 63.3 93.3 0.46 66.3 7.96 \* 97.3 66.3 93.3 97.3 61.3 6.60 93.3 93.3 0.46 0.46 0.46 27.3 97.3 97.3 1.96 ٨١ 87.3 81.3 97.3 6.66 97.3 93.3 7.96 93.3 93.3 93.3 0.46 66.3 ٨I VISIBILITY (STATUTE MILES) 96.7 90.7 97.3 97.3 97.3 0.46 6.16 0.46 99.3 99.3 €.66 ٨ŧ 0.46 97.3 97.3 99.3 67.3 97.3 0.46 71 7 6.66 93.3 0.96 1.96 61.3 97.3 8.66 93.3 97.3 6.16 93.3 0.46 97.3 ۸I 97.3 0.46 97.3 66.3 96.7 97.3 66.3 93.3 0.46 93.3 93.3 97.3 97.3 Y 21/2 97.3 66.3 97.3 97.3 97.3 0.46 0.46 93.3 93.3 93.3 7.96 99.3 93.3 ٨I 87.3 97.3 61.3 97.3 10.0010.0010.001 63.3 97.3 93.3 93.3 63.3 7.96 99.3 86.66 0.46 0.46 ٨١ 66.66 66.3 97.3 97.3 63.3 93.3 93.3 0.46 34.0 97.3 61.3 93.3 97.3 93.3 1.96 ۸I 97.3 97.3 97.3 0.46 6.76 86.3 66.3 93.3 0.46 1.96 97.3 93.3 93.3 Al 14.7 14.7 14.7 16.7 4.7 14.7 14.7 4.7 14.7 14.7 14.7 4.7 14.7 14.7 AI NO CEILING VI VI 18000 1 VI VI 12000 (FEET) VI VI 500 500 500 500 4500 3300 2000 88 88 88 80 ¥ 2000 8 00 0 00 0 00 0 00 9000 1500 8 9 88 AI AI ALAI AI AI AI AI AI AI ALAI ALAI ALAI AI AI ALAI AI AI AI AI

TOTAL NUMBER OF OBSERVATIONS

150

BAR

DIRNAVOCEANMET

94.7

94.7

7.46

94.7

00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0  93.31

88

ALA

93.3

1200

AI AI

93.31

88

ALAI

88

AI AI

00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0

00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 

95.3

95.3

96.7

7.96

7.86 7.86

98.7

7.86

98.7

98.7 98.7 98.7

7.86

98.7 98.7 98.7

98.7

48.7

92.0 98.7

3200

2000

93.3

1800

AI AI

94.7

7.46 7.46

611.3

CEILING VERSUS VISIBILITY

WAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

1

٨١

85.3

85.3

85.3

85.3 85.3 85.3

85.3

HOURS (LST.) NON

200

85.3 85.3 85.3 85.3 95.3 85.3 85.3 85.3 91.3 7.46 94.7 94.7 94.7 5/16 96.7 85.3 85.3 95.3 85.3 85.3 85.3 61.3 7.46 85.3 85.3 94.7 94.7 7.96 1.46 2 ۸۱ 65.3 85.3 85.3 85.3 85.3 7.76 95.3 95.3 95.3 95.3 85.3 91.3 4.7 94.7 1046 96.7 85.3 85.3 7.46 61.3 7.46 94.7 96.7 96.7 94. ۸۱ PERCENTAGE FREQUENCY OF OCCURRENCE 85.3 85.3 85.3 85.3 94.7 85.3 91.3 4.7 94.7 7.46 ٨١ VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 61.3 1.76 7.56 85.3 85.3 94.7 7.96 ۸۱ 85.3 85.3 85.3 85.3 85.3 91.3 94.7 94.7 95.3 46.7 94.7 94.7 17 85.3 1.96 85.3 85.3 91.3 1.46 70.0 85.3 85.3 7.46 85.3 85.3 95.3 95.3 95.3 94.7 1.96 ٨I 65.3 91.3 94.7 94.7 4.7 94.7 96.7 ٨I 85.3 85.3 85.3 94.7 1.76 85.3 85.3 61.3 85.3 7.46 94.7 7.96 ٨١ 7.96 95.3 95.3 95.3 91.3 94.7 85.3 85.3 94.7 64.7 94.7 96.7 ۸۱ 85.3 85.3 85.3 85.3 61.3 104.7 1046 1.96 7.46 11 85.3 85.3 4.7 85.3 91.3 1.46 7.46 94.7 96.7 88.0 0.06 98.0 88.0 88.0 88.7 78.7 78.7 78.7 84.7 78.7 78.7 18.7

NO CEILING

× 20000

(FEET)

VI VI 8000 5000 6000

V V 12000

2000

AI AI

2000

AI AI

4500 4000

AI A

TOTAL NUMBER OF OBSERVATIONS

150

80

AI AI

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NON

CEILING							VISI	BILITY (ST	VISIBILITY (STATUTE MILES)	£S)						
(FEET)	0 4	9 11	S) Al	4	e vi	≥ 2%	2 4	٧١ ٧	¥1 ¥1	- AI	% AI	*	N N	≥ 5/16	% Al	0 1
NO CEILING	68.0	68.0	68.	0.89	8	0		68.0			68.0	68.0	0.89	68.0	0.89	68.0
× 20000	86.7	87.3	87.3		87.3	87.3	87.3		87.3	87.3	87.3	1.	87.3		87.3	87.3
18000	-	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
16000	-	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
		87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
12000	-	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
	1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
000	-	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
1		94.0	0.46	0.46	0.46	0.46	0.96	0.46	94.0	0.46	0.46	0.46	0.46	0.46	0.46	0.46
700		96.0	0.96	0.96	0.96	96.0	96.0	0.96	96.0	96.0	96.0	0.96	0.96	0.96	0.96	0.96
1		96.0	0.96	0.96	0.96	96.0		0	96.0	96.0	0.96	0.96	0.96	0.96	0.96	0.96
200		96.0	96	0.96		0.96	0.96	0.96	0	96.0	0.96	0.96	0.96	.9		96.0
1	0	96.7	96	1.96	1.96	96.7		96.7	0	96.7	1.96	4.96	7.96	96.7	7.96	7.96
141	0	96.7	7.96	7.96	1.96	7.96	7.96	96.7	96.7	96.7		96.7	1006		4.96	
1	0	96.7	1.96	1.96	1.96	1.96		7.96	7.96	96.7	1.96	7.96	40.1	1.96	1.96	7.96
300	98.0	98.7	7.86	7.86	7.86	7.86	7.86	98.7	98.7	98.7	98.7	98.7	98.7	7.86	4.86	98.7
1	E.	100.0	0.00	100.00	10.00	00.00	0.00	00.00	100.0	100.0	100.0	0.001	0.001	10000	00.00	0000
7000		100.0	0.00	100.001	10.00	00.00	0000	0.00	100.0	100.0	100.0	100.0	100.00	100.001	10.00	0000
1	w	100.0	0.00	100.00	10.00	00.00	0000	0.00	100.0	100.0	100.0	100.0	0.001	10000	10.00	0000
1500	5	100.0	0.00	100.001	10.00	00.00	0.00	00.00	100.0		100.0	100.00	100.00	100001	10.00	0000
1	3	100.0	0.00	100.00	00.00	00.00	0000	00.00	100.0	100.0	100.0	100.0	0.001	10.00	00.00	0000
000	m	100.0	0000	100.001	00.00	00.00	0.00	0.00	100.0	100.0	100.0	100.0	100.00	100001	10.00	0.00
	66.3	100.0	00	100.001	00.00	10.00	0.00	00.00	0.001	100.0	0.001	0.001	0.001	10000	0000	0000
8	200	100.0	100.001	100.001	100.00	00.00	0.00	00.00	100.0	0	100.0	100.0	100.0	0	10.00	0000
		100.0	0.00	100.001	00.00	00.00	0000	0.00	100.0	100.0	100.0	0	0.001	ò	10.00	0.00
8	3	1000	0000	100.001		00.00	0.00	0.00	0.001	10000		10000	100.00	100.00	00.00	0000
	603	100.0	0.00	10001	0.00	00.00	0.00	00.00	100.0	100.0	100.0	100.0	0.001	100.001	00.00	000
8	3	100.0	0.00	100.001	10.00	00.00	00.00	0.00	0.001	10000	100.0	100.0	100.00	100.00	10.00	0000
		100.0	0.001	100.001	00.00	00.00	0.00	0.001	0.001	100.0	100.0	100.0	0.001	100.00	00.00	0000
9 Al	86.3	100.001	.00	100.001	00.00	00.00	0.00	0.00	100.0	100.0	100.0	100.0	100.00	100.00	00.00	0000
	20	100.001	0000	0.001	00.00	00.00	0.00	0.00	0.001	100.0	0.001	100.0	0.001	10000	10.00	0000
0	w	100.001	.001	100.001	00.00	00.00	0.00	0.00	100.0	100.0	100.0	100.00	100.001	100.001	00.00	0000

TOTAL NUMBER OF OBSERVATIONS

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

73

73-77

-77-

NOV HONTH

2

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEUTING    2.10   2.6   2.5   2.4   2.5   2.76   2.76   2.76   2.77   3   7.2   7.75			0	~	~	~	•	_	-	-		~	~	~	-	~	-	_	_	-	-	**	-	~	-	~	~	~	_	~	~	0	~	<u></u>
TRING 59.3 b 0.0 b			909	77	77.	77.	77.	11.																		000	00.	100					00	00
TERING  2 10 2 4 2 5 2 4 2 3 2 2 4 2 2 2 1 3 2 1 2 2 2 2 2 2 2 3 2 2 2 2 2				7.	77.3	77.3	77.3	77.3	•	•	*	•	.9	.9	.0	6	3	*	8	6	6	6	6	0	0			0	.0	0			•	00.00
TEURING 2:0 2 6 25 2 2 22% 22 21% 21% 21% 21 2 2 2 2 2 2 2			.0	•	77.3	77.3	77.3		•	6		. 9	.9	. 9			2.	*			6	. 6		0	10.00			0		0		0	0	00.00
STING   STATE ALLESS   STATE   STATE   STATE ALLESS   STATE		2	0.0	1	77.3	77.3	77.3			6.3	4.7	0.9	0.9	0.9	6.7	6.6	2.0	0	.7		.3	3		0	10.	.01	0	10.0	10.0	10.0	0.0	0.0	0.0	
THING  THE STORY STATES THE STATES THE STATES THE STATES  THE STATES THE STATES THE STATES THE STATES THE STATES  THE STATES THE STA			0.0		17.3	77.3	17.3	77.3			4.7	0.9	0.9	0.9	4.4	9.3	2.0	0.4	8.7	6.3	6.3	6.3	6.3	10.0	0.0	10.	0	0.0	10.0	0.0	10.0	0.0	0.0	0.0
**************************************			0.	77.3	77.3	77.3	77.3		•	6	1.4	0.9	0.9	0.9	1.9	6.6	2.0	0.4	8.7	6.3	6.3	9.3	9.3	0.0	10.0	0.01	10.0	0.0	10.0	0.0	10.0	0.01	0.0	0
TEILING  FEET 2 10 2 6 2 5 2 4 2 3 22% 2 2 2 1% 2 1% 2 1% 2 1% 2 1% 2		-	0	7.	17.3	17.3	77.3	17.3	78.7	.3	4.7	0.9	0.9	0.9	6.7	9.3	2.0	4.0	8.7	6.3	6.6	6.3	6.6	0.0	0.01	0.01	10.0	0.0	0.01	0.01	0.01	0.0	0.0	
TELING FEET) \$\( \) \times	UTE MILES	-	0.0	7.3	7.3	17.3	77.3				4.7	0.9	0.0	0.9	2.9	9.3	2.0	0.4	8.7	6.3	6.3	6.3	6.3	10.0	0.	.01	10.	0	10.	.0	10.0	0.0	10.0	0
TELING FEET) \$\( \) \times	LITY (STAT		0.0	7.3	. 3	7.3	17.3		. 7		4.7	0.0	0.9	0.9	6.7	9.3	5.0	0.4	8.7	9.3	6.6	9.3	6.6	10.0	10.0	0.0	10.0	10.0	10.0	0.0	10.0	0.01	0.0	0.0
TELING  FEET)  2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	VISIB	2	0.0	7.3			7.3		8	6	4.7	0.9	0.9	0.9	6.7	9.3	2.0	4.0	8 . 7	6.3	6.6	6.3	6.3	0.01	10.0	0.01	0.01	10.0	10.0	0.01	10.0	0.01	10.0	•
CELLING FEET)			0.0	.3	17.3	77.3	17.3	77.3	1.	.3	4.7	0.9	0.9	0.9	6.7	6.6	2.0	4.0	8.7	6.3	6.3	6.3	6.3	0.01	0.01	.0	10.	0	0.01	0.01	10.0	0.0	0.0	
CELLING		100.00	0.0	7.	17.3		17.3	77.3	78.7	•	4.7	0.9	0.9	0.9	1.9	6.6	2.0	4.0	8.7	9.3	6.3	6.6	6.3	0.01	.01	0.0	10.	0.0	0.01	10.0	10.0	0.0	0.0	0.0
CELLING		4	0.0	7.3	. 6.71	17.3	17.3	17.3	•		4.7	0.9	0.9	0.9	6.7	8.7	1.3	3.3	0.8	8.7	8.7	8.1	8.7	9.31	9.31	9.31	9.31	9.31	18.6	9.31	16.6	9.31	9.31	9.3
FEET) 2 10 2 6  CEILING 76 3 60 0  20000 76 0 77 3  18000 76 0 77 3  18000 76 0 77 3  18000 76 0 77 3  18000 76 0 77 3  18000 76 0 77 3  18000 84 7 86 0  18000 84 7 86 0  25000 84 7 86 0  25000 84 7 86 0  25000 86 7 98 7  11200 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7  2500 96 7 98 7		85	0.	.3								0.	0.	0	1.			.3	0.	.7	. 7	.7			. 7		1.	. 1	.7	. 7	.7	. 1		
CEILING PET 1 18000 TEED 1 1800		5.75	0.			.3	.3	10		•		0.9	0.9	0.9	2.9	8.7	1.3	3.3	0.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.1
FEET)  CEILING  CEILING  CEILING  COOO  100000  100000  100000  100000  100000  100000  100000  1000000			.3	0	0	0.	0.	0	75	0	6	1.	. 7		100		0	0	0							. 1	.7			. 7				
¥	CEILING		CEILING	20000	18000	16000	14000	12000	10000	0006	0008	2000	9009	2000	4500	4000	3500	3000	2500	2000	1800	1500	1200	000	8	900	700	9	200	400	300	200	8	•

TOTAL NUMBER OF OBSERVATIONS

150

8000

DIRNAVOCEANMET SMOS

Hu Cassem

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

NON MONTH

3

16 HOURS (1 S T.)

95.3 7.86 88.7 99.3100.0100.0100.0100.0100.0100.0100.0 99.3100.0100.0100.0100.0100.0100.0100.0 99.3100.0100.0100.0100.0100.0100.0100.0 0.0010.0010.0010.0010.0010.0010.0010.0010.00 99.3100.0100.0100.0100.0100.0100.0100.0 99.3100.0100.0100.0100.0100.0100.0100.0 00.0010.0010.00100.0100.0100.0100.0100.0100.0 11 10.0010.0010.0010.0010.0010.0016.66 86.0 66.66 99.3100.0100.0100.0100.0100.0100.010 75.3 86.0 86.0 89.3 95.3 99.3 98.7 88.7 77.3 86.7 A 99.3 84.0 86.0 86.0 86.0 0.86 77.3 95.3 75.3 88.7 89.3 7.86 86.0 0.86 75.3 86.0 66.3 84.0 95.3 86.0 88.7 66.3 98.7 86.7 89.3 98.7 2 ٨١ 0.86 75.3 95.3 99.3 86.0 86.0 86.0 86.66 75.3 77.3 89.3 98.7 88.7 76.7 86.7 98.7 \* 75.3 0.86 86.0 95.3 99.3 6.66 75.3 75.3 84.0 86.0 86.0 89.3 77.3 88.7 98.7 98.7 98.7 76.7 86.7 ٨I 84.0 95.3 75.3 98.0 98.0 86.0 86.0 86.0 98.7 99.3 75.3 77.3 76.7 86.7 89.3 98.7 666 88.7 ٨I VISIBILITY (STATUTE MILES) 86.0 96.0 89.3 95.3 0.86 75.3 77.3 84.0 86.0 88.7 0.86 7.86 76.7 86.7 7 66.3 66.3 86.0 88.7 65.3 86.0 66.3 86.0 0.86 98.0 0.86 98.7 66.3 75.3 77.3 84.0 89.3 66.3 99.3 7.86 99.3 86.7 86.7 76.7 7 86.0 56.0 75.3 77.3 86.0 95.3 8.66 75.3 88.7 7.86 66.3 75.3 89.3 89.3 98.0 98.0 0.86 0.86 98.7 6.65 84.0 84.0 86.0 86.0 98.0 66.66 ۸I 95.3 0.98 77.3 86.0 98.0 66.3 88.7 86.3 99.3 66.3 7.86 66.3 66.3 86.7 98.7 1 2% 0.86 0.90 86.0 0.86 62.3 84.0 86.0 6.66 89.3 66.3 0.86 66.3 66.3 66.3 66.3 86.7 7.86 66.3 98.7 88.7 86.0 86.0 75.3 84.0 98.3 98.0 0.86 75.3 77.3 89.3 7.86 66.3 66.3 75.3 86.0 86.7 0.86 99.3 66.3 66.3 66.3 66.3 76.7 98.7 88.7 ٨١ 0.86 75.3 86.0 96.0 0.86 75.3 66.3 66.3 77.3 36.0 84.0 89.3 95.3 0.86 66.3 7.86 7.86 66.3 66.3 99.3 86.7 88.7 76.7 ٨I 61.3 75.3 75.3 84.0 85.3 85.3 98.0 98.0 15.3 75.3 75.3 76.7 77.3 86.0 88.0 88.7 94.7 97.3 7.86 7.36 1.86 98.7 98.7 85.3 97.3 7.86 98.7 ۰ ۱۸ 65.3 92.0 95.3 95.3 95.3 85.3 95.3 95.3 73.3 75.3 82.0 83.3 86.0 7.46 95.3 95.3 3.3 3.3 95.3 95.3 73.3 82.7 82.7 1.46 4.7 74.7 16000 12000 000 000 000 (FEET) > 20000 9000 1800 1200 80 8000 900 3000 2000 88 88 500 88

ALAI

AI AI

ALAI

AI AI

ALAI

ALAI

TOTAL NUMBER OF OBSERVATIONS

150

89.3 89.3 90.0

89.3 0.06

89.3

0.06

0.06

0.06

0.06

90.0

7.06

7.06

7.06

7.06

7.06

80.7 80.7

88.7

88.7

80.7

80.7 88.7

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78.0 78.0

66.7 2 5/16

78.0

78.0 78.0

78.0 78.0 78.0

78.0 78.0 78.0 79.3

78.0

78.0

78.0

78.0 79.3

79.3

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### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

11705

YEARS

19 HOURS (1 5 T.)

111

NON

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

78.0 19.3 88.7 78.0 78.0 89.3 78.0 78.0 80.7 Al 78.0 78.0 79.3 89.3 78.0 78.0 80.7 80.7 80.7 80.7 80.7 88.7 .99 × 78.0 78.0 78.0 88.7 79.3 78.0 ۸۱ 78.0 78.0 79.3 88.7 YI 7 78.0 78.0 78.0 79.3 78.0 78.0 7 7 78.0 78.0 78.0 7

78.0

78.0 78.0 78.0 79.3

78.0

78.0 78.0

78.0

78.0

VI VI 0008 0008 0008

78.0

78.0

78.0 78.0

18.0 18.0

78.0 79.3 80.7 88.7

78.0

79.3

19.3

18.0 18.0

80.7 80.7 88.7

18.0 18.7 19.3

76.0

78.0 78.0

.99 1 2%

W

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10

AI

2

(FEET)

NO CEILING

≥ 2000€

89.3

7.06 7.06 0.06 89.3 89.3 0.06 88.7 88.7 90.7 78.0 89.3 79.3 0.06 7.06 78.0 78.0 78.0 79.3

80.7

89.3

89.3

89.3

89.3

2000

88.7

0.06

0.06

19.3

2000

90.7 0.06

90.7 90.7

19.3 19.3 19.3 19.3

1.06 7.06 92.7

7.06 7.06 7.06 7.06

4500 4000

ALAI

92.7 92.7

88.7

7.06 7.06 7.06 7.06 92.7 92.7 7.06 92.7 90.7 1.06 92.7 40.7 0.06 88.7 89.3 80.7

100.010 96.0 96.0 96.0 98.7 98.7 98.7 0.96 7.86 90.7 90.7 90.7 90.7 7.86 7.86 0.96 0.96 90.0

0.96

96.0 96.0 98.7 98.7

20.7

3500

20.7 20.7

2000

41 41

20.7

1500

ALAI

1200

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7.86

96.0 96.0 96.0

0.96 92.7

0.96

0.96

92.7

92.7

98.7 98.7

7.86

7.86 7.86

98.7

90.7 92.7

7.06 90.7

> 7.06 92.7

7.06

90.7 92.7

7.06

90.7

7.06

7.06 7.06

100.010 

100.010 00.01000.010 0.00100.0100 

20.7 20.7 20.7 20.7 20.7

100.010 100.010 100.010 20.7 88 80 88 88 88

MIM

TOTAL NUMBER OF OBSERVATIONS

150

1800

SMOS DIRNAVOCEANMET

GUANTANAMO BAY, CUBA

BENEAL MEATHER SERVICE DETACHMENT, ASHEVILLE, N.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NON NEW

2

22 HOURS (LS.T.)

ON INC.							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
(FEET)	2	o Al	V)	4	e Al	2 2%	7 1	V1 7/2	¥1 ×1	ĀI	% AI	*	AI Z	2 5/16	VI %	0 1
NO CEILING	-1 -	82.7 82.	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
		01.0	61.3	6.10	01.3	3	:	91.3	2.16		91.3	91.3	61.3	91.3	91.3	01.3
141	18.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
	18.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	-	6116	91.3	91.3	91.3	91.3	91.3
12000	18.7	91.3	91.3	91.3	61.3	91.3		91.3	91.3	-	91.3	91.3	91.3	91.3	616	61.3
	18.7	92.0	92.0	92.0	92.0	2.		0.26	92.0	•	92.0	92.0	95.0	92.0	92.0	92.0
006	18.7	92.7	3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
	0	-	0.96	96.0	0.96	0.96	0.96	0.96	96.0	0.96	0.96		0.96	0.96	0.96	0.96
1 7 1000	0		0.96	0.96	0.96	96.0	0.96	0.96	96.0	96.0	0.96	0.96	9	96.0	96	0.96
	0	+	0.96	÷	0.96	96.0	0.96	0.96	.0	0	96.0		0.96	è		0.96
1 11	20.0					7.96			7.96			1.96	40.1		96.7	7.96
	0	-	1.96		1.96	96.7	7.96	46.7	7.96		96.7	16.7	7.96	96.7	96.7	96.7
1 1 1	0		7.96		7.96	96.7	1.96	7.96	96.7	7.96	7.96	1.96	7.06	96.7	96.7	1.96
1	O	+		98.0	98.0		98.0	8	0.36		8		98.0	98.0	98.0	98.0
3000	20.0				7.86		8	98.7	8	00	98.7	98.7	98.7	98.7		7.86
	0		66.3	66.3	6.66	6.66	66.3	66.3	86.66	6.66	66.3	66.3	66.3	66.3	66.3	99.3
1 2000	0		100.00	100.00	100.001	100.001	100.001	0	100.001	0	100.0	100.00	100.001	100.0	100.00	0.00
	0		0.00	0.001	0.00	00.00	100.001	100.00	100.00	0.001	100.0		00.001	0.001	0.001	0.00
1500	0		100.00	100.001	100.00	100.00	100.001	100.00	100.00	100.001	100.00	100.001	100.00	100.0	100.00	0.00
1	0		100.00	0.001	100.00	0.001	100.0	100.00	00.00	0.001	100.0		00.001	100.0	0000	0000
1000	20.0		100.00	10000	100.001	10000	100.001	100.0	100.00	100.0	100.0	100.001	100.00	100.0	100.0	0.00
	0		100001	100.00	0.00	0.001	100.001	100.001	100.00	100.0	0.001		100.01	100.0	0.001	0000
008	0			100.00	100.001	100.00	100.001	100.00	100.00	0	100.0	100.00	100.00	100.0	100.0	0.00
	0		274	0.00	0.001	0.001	0.001	0.001	0.001	0.00	100.0		100.00	0000	0000	0000
8	0		100.00	100.001	100.001	10000	100.001	100.00	100.00	10000	100.0	100.00	100.00	100.0	10000	0.00
	O		1	0.00	0.001	00.00	0.001	100.00	100.0	0.00	0.001	0.001	0.001	0000	0.001	0000
1 1		-	100.00	100.00	100.001	100.00	100.00	100.00	0.001	100.00	100.0	100.001	100.00	100.0	100.0	0.00
	20.0	-	- 50	100.00	0.001	0.001	100.0	100.0	0.001	0.001	0.001	0.001	0.001	0000	0000	0000
30	20.0	100.00	100.00	100.001	0.001	10000	100.001	100.0	100.00	100.00	100.0	100.001	10001	100.0	100.0	0.00
	0.0	100.0	100001	10001	100.00		100.001	100.0	100.00	0.001	100.0	0.001	0.001	100.0	00001	0.00
٨١	0.0	100.0	100.001	100.001	100.001	10000	100.00	100.001	100.00	100.001	100.0	100.001	100.001	0.001	100.00	00.00

TOTAL NUMBER OF OBSERVATIONS

150

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

210

NONTH

66.3 8.66 93.9 99.8 99.8 99.8 8.66 8.66 85.9 85.9 92.7 92.7 92.7 92.8 92.8 92.8 0.0010.0010.00100.00100.0100.0100.0100.06 6.96 6.96 0.0010.0010.0010.0010.0010.0010.0016.66 0.0010.0010.0010.0100.0010.0010.0010.0010.0010 0.0010.00100.0100.0100.0100.0100.0100.0100.01 0.0100.0100.0100.0100.0100.0100.0100.0100.0 ٥ ٨ 84.7 84. 97.4 8.66 8.66 95.3 99.3 99.3 99.3 99.3 99.3 99.3 99.3 84.7 84.7 93.0 93.0 91.4 93.9 93.3 ٨١ 85.5 84.8 85.9 63.3 95.3 8.66 8.66 93.9 8.66 8.07 84.7 91.4 84.7 84.7 ≥ 5/16 93.0 85.5 93.3 4.76 8.66 8.66 84.8 6.58 91.4 95.8 92.7 63.6 95.3 95.3 8 99.8 99.8 99.8 8.66 8.66 8.66 8.66 8.66 8.66 84.7 84.7 84.7 84.7 84.7 84.7 84.7 AI 63.3 63.6 91.4 8.26 99.8 84.7 84.7 84.7 84.8 85.5 92.7 93.0 97.4 8.66 85.9 84.7 \* 8.66 84.8 84.8 92.7 92.7 92.8 92.8 92.8 92.8 93.0 93.0 93.0 93.0 70.8 84.7 84.7 85.5 85.5 85.9 85.9 63.3 8.66 97.4 97.4 % AI 8.66 84.7 91.4 8.66 Ā VISIBILITY (STATUTE MILES) (FROM HOURLY OBSERVATIONS) 4.66 92.7 63.3 84.8 84.8 84.8 85.5 85.5 85.5 65.9 85.9 85.9 91.4 97.4 97.4 49.7 99.8 99.8 84.7 84.7 84.7 84.7 84.7 84.7 84.7 84.7 ٨١ 6.66 6.66 7.66 6.66 92.7 92.7 7.66 7.66 71 77 4.16 8.66 93.0 4.66 6.66 6.66 91.6 6.66 6.66 70.8 84.7 6.66 6.66 6.66 84.7 17 97.4 99.9 99.9 6.66 70.8 84.8 6.56 52.9 92.8 92.8 92.8 92.8 92.8 52.8 93.3 93.9 8.66 6.66 6.66 6.66 6.66 84.7 84.7 84.7 84.7 85.9 91.4 91.4 66.3 66.3 8.66 8.66 6.66 6.66 6.66 6.66 6.66 6.66 84.7 84.7 95.5 85.5 85.5 85.5 7.69 1.66 99.6 9.65 92.7 92.7 7.66 1.66 Y 2% 4.76 63.6 95.3 8.66 84.8 84.8 85.9 6.66 6.66 63.3 6.66 6.66 70.8 84.7 ۸I 95.3 9.66 8.66 63.3 8.66 84.7 84.7 85.9 85.9 8.06 41.4 91.4 92.7 93.8 93.8 97.3 97.3 8.66 8.66 49.7 1.66 8.66 8.66 8.66 8.66 8.66 8.66 8.66 99.8 99.8 8.66 8.66 8.66 ٨I 95.3 9.66 8.66 8.66 8.66 84.7 84.7 63.3 4.66 8.66 52.9 92.6 92.7 1.66 VI Al 84.8 85.5 8.66 60.66 9.66 70.8 84.7 85.5 85.9 91.4 93.2 93.8 4.66 84.7 84.7 56.0 97.3 1.66 9.66 4.66 7.66 7.66 49.7 4.66 7.66 ۰ ۱۸ 47.8 53.2 54.3 57.4 53.8 48.3 51.9 57.4 48.4 57.3 57.3 57.3 57.4 57.4 37.4 57.4 NO CEILING (FEET) Y Y 1400 1800 80 ≥ 20000 9000 8000 7000 4500 3500 2500 88 1200 88 88 88 5000 AI AI AI AI ALAI AI AI AI AI ALAI AI AI ALAI ALAI ALAI

0

.0

0

TOTAL NUMBER OF OBSERVATIONS

1200

OE

SMOS DIRNAVOCEANMET

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (1.5.T.) DEC

1887

.1 38.4 88.4 38.
89.0 89.0 89.0 89.0 89.0 89.0
3 91.6 91.6 9 8 96.1 96.1 9 8 96.1 96.1 9
8 96.1 96.1 96.1 96.1 96 1 97.4 97.4 97.4 97.4 97.8 97.4 97.4 97.4 97.4 97.4 97.4 97.4 97.4
0100.0100.001
7100.0100.0100.0100.0 7100.0100.0100.010

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0.4 HOURS (1.5.7.) DEC

BER

0

	O Al	0.3		12.9		13.6		2.40	4.8	100	1.90	96.1	1.90	100	7.4	7.4	98.1	18.7	9.60	39.4	000	000	0.00	0.00	0000	000	0000	000	000	000	000	0.00	
	2	.3 9		_		_	9.	-		1.	-1	5 1.	-1-	-1.	*	4.	-	.7	4.	5 4.	010	-	000	500	-	010	0000	010	.010	-	0	0	.010
	AI	96		92		63	63	46		96		96		96			86	98	66	66	100	001			100	100	100	100	100	100	100	001	001
	5/16	0	5	0		3.		4				6.1						8.7			0	0	0.0	0	0	0	0	0	ò	0	0.0	0.0	0.0
	AI	3	_	_	6	-	_	-	8	6 1	6	1 9	1	6	4	4	6	2	4	4	010	010	010	010	010	-	010	010	010	010	010	010	010
	N X	96	92.	92.	92.		63	94		96		96		96		97	86		66	66	100	001	00	00	100	100	100	001	100		00	001	001
	*	6.0					3.6			1.9	1.9	6.1	6.1	1.9	7.4	1.4	8.1	8.7	4.6	4.6		0.0					0.0			0.0	0.00	0.0	0.0
		3 90	-		_	_		-		1 9	0	6 1	0	1	4	4	6 7	6 1	4	-	010	-	-	010	4	010	-	-	-	-	-	-	010
	AI %	90.		92.		63.		94.		96		96	96	96		67.		86	66	66	100	100	100	100	100	100	100	100	100	100	100		100
	-	0.3		•	5.9	•	3.6		4.8	6.1	1.9	6.1		6.1	7.4	7.4		8.7	4.6		0.0			•		0.0		0.0	0.0		0.0	•	0.0
MILES)		3 9	-		-	-	9	-	8	1 9	1 9	6 1	7	1 9	4	-	1 9	7 9	4		010	10	010	010	2	-	010	-	-	-	010	010	010
ATUTE	VI Z	06	92.	92.		93.		94	94	96		96.		96	97	97.	98	68	66	66	100	001	00	001	100	001	100	001	100	001	00	001	001
VISIBILITY (STATUTE MILES	11%	0.3		5.9	•		3.6	4.2	4.8	6.1		6.1		6.1	7.4	7.4	8.1		4.6	4.6	0.0			0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
VISIBIL	AI	3					0		9	1 9	1 9	6	0	6	0	-	1	7 9	4	4	010	010	-	010	-1	-	010	-	010	-	010	-	010
	Al	.06	92.	92.	92.		93		96	96		96	96	96	16	97.	98.				100	100	100	100	100	100	100	100		100	100	100	100
	27%	0.3	2	3	2.	•	3.6	4.2	8.4	6.1	6.1	6.1	6.1	6.1	7.4	7.4		8.7	4.6		0.0	0.00		0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
	ΛI	3	-			6 9		5 2	6	1	1 9	7	1 9	6	4	4	6 1	6 2	4	4	010	-	-	ri.	010	010	010	010	010	010	010	010	010
	۷۱	06	92	92.	92.	63	66		96	96	96	96	96	96	97		86	98		66	100	001	100	100	100	001	100	001	100	100	100		100
	4	0.3	2	:	2			*	4.8	6.1	1.9	1.9	1001	1001		7.4	18.1	18.7	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0
	8	.3	_	6 6.	_		9.		9	6 1.	.1 9	1.	-1	6 1.	5	5 4.	6 1.	6 1.	4.	6 4.	410	410	410	410	014.	014.	014.	0410	0410	.410	.410	410	· 410
	Αİ	0	_	0	0		0	_						_		-		-		_	66	66	66	66	66	66	66	66		66	66	66	66
	٨١	89.0	1	-	-	2.	92.3		93.6	8. 56		8.46		94.8		1.96			1.8		98.1	18.1	18:1	8.1	98.1	98.1	98.1		98.1		98.1	98.1	18.1
	0	-:	-	1.	-		7									1.									۲.							. 7	
_	ΑI	-4	13		30.	2	200	18		1.8	87	18	1.8	3	18	1.8	18	- C	1.8	18	18	18	1.8	18	18	1.8	7.00	1.8	18	18	18	7.8	18
ING	(FEET)	NO CEILING	20000	8000	16000	4000	12000	0000	9006	8000	2000	9009	2000	4500	4000	3500	3000	2500	2000	1800	1300	1200	1000	900	900	200	9	200	400	300	200	8	0
2		Q Z	٨١		Ž		١٨١		۱۸۱	٨١	AI	٨١	٨١	^	1 11	٨١	1 11		۸۱	1	۸۱	Al	۸۱	۸۱	۸I	٨	M	AI	AI	Al	AI	AI	۸۱

0. 0

0.0

TOTAL NUMBER OF OBSERVATIONS

153

8118

SOWS DIRNAVOCEANMET

(3)

GUANTANAMU BAY, CUBA

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 HOURS (1.5.T.)

3

CEILING							VIS	IBILITY (ST	VISIBILITY (STATUTE MILES)	ES)						
	2	٨١	S Al	۷I	es Al	Y 2%	N Al	V 1%	۷۱ ۲	<u></u>	% Al	*	V.	≥ 5/16	NI N	٨١
NO CEILING	67.1	-	80.7	80.7	80.7	0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.
> 20000		8	•		85.8	5	85.8	5	5	85.8	85.8	•	•	•	85.8	85.6
	71.6	8	85.8	85.8	85.8	8.50	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.6
≥ 16000		Œ	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.6
	71.6	8	35.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
× 12000	-	00	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
1	~	1	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
0006	73.6	4	88.4	88.4	88.4	88.4	88.4	88.4		88.4	88.4	88.4	88.4	88.4	88.4	88.4
		.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	-	93.6	93.6	_		93.6	93.6
7000	76.8	•	93.6		93.6	93.6	93.6	93.6	3	93.6	93.6	93.6	93.6	93.6	93.6	93.6
	77.4	N	2.46	2.46	2.46	34.5	10000	2.46	94.2	94.2	2.46	2.46		4.	94.2	94.2
2000		10	95.5		95.5	95.5	95.5	95.5		95.5	95.5	95.5	95.5	95.5	5	95.5
		96.1	1.96	1.96	1.96	96.1		96.1	.0	96.1		1.96			9	96.1
141	0	4	4.16		4.16	97.4	97.4	97.4	97.4	97.4	97.4	97.4		97.4	97.4	97.4
	0	4	97.4	4.76	4.16	4.76	4.16	97.4	97.4	97.4	4.26	4.16	97.4	4.16	97.4	97.4
3000	80.7	4	97.4	4.76	97.4	4.16	97.4	4.18	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
1	-	-	1.86	68.7	98.7	7.36	7.86	98.7	98.7	98.7	7.86	78.7	98.7	98.7	7.86	98.7
2000	82.6	0	100.001	100.00	00.00	100.00	100.001	100.00	100.0	100.0	100.00	100.0	100.0	100.0	0.001	0000
	82.6	100.001	00.00	10.00	0.00	100.00	100.001	0.00	0.001	100.0	0.001	0.00	0	100.0	0.00	0000
> 1500	82.6	0	100.001	10.00	00.00	100.00	100001	100.00	100.0	10000	100.00	0.001	0	100.0	0.001	0000
	85.6	0	10.001	10000	00.00	100.00	100.001	0.001	100.0	100.0	100.0	0000	100.0	100.0	0.001	0000
1000	2.	0		00.00	0.00	100.00	100.001	•	100.0	100.00	0	•	0	0	0.001	0000
	2	0		0.00	0.00	00.001	100001	100.00	100.00	10000	100.00	•	0	100.0	0.001	0000
008	82.6	0	100.001	00.00	00.00	100.001	100.001	100.00	100.0	100.0	100.00	10000	100.0	100.0	0000	0000
	82.6	100.001	100.001	0.00	00.00	10000	100001	00.00	0.001	100.0	0.001	0.00	100.0	100.0	0.00	0000
000	82.6	0	10000	100.00	0.00	100.001	100.001	100.00	100.00	100.0	100.00	0.001	100.0	100.0	0.001	0000
		0	100.001	100.00	0.00	100.00	100001	100.00	100.0	100.0	0.001	0.00	100.0	100.0	0.00	0.00
VI 400	82.6	0.0		00.00	00.00	100.001	100.001	100.00	100.0	0	100.00	0000	100.0	100.00	0.001	0000
		0	00.00	10.00	00.00	00.00	100.001		0.001	0.001	0.001	0000	0.001	100.00	0.00	00.00
N 200	2	100.001	0.00	10.00	00.00	100.00	100.001	00.00	100.00	100.00	100.001	100.00	100.0	100.0	0.00	00.00
80	32.0	0.0	100.00	00.00		0000	10000	0.001	0.001	0.001	0.001	0.001	100.0	0.001	0.00	000
		100.001	0000	0.00	0.00	0.00	0.001	00.00	0000	0.001	0.001	0000	0.001	0.001	0000	0000

TOTAL NUMBER OF OBSERVATIONS

0.

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CURA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 HOURS CL S.T. DEC

1

97.4 95.5 0.001 96.8 96.8 98.1 4.66 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 100.010 100.01000.01 100.010 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0 ٨١ 83.9 4.66 83.9 4.16 1.86 84.5 916 95.5 8.96 85.8 96.8 87.7 ۸۱ 84.5 83.9 85.8 91.6 95.5 8.96 4.76 4.66 00.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 84.5 87.7 13.6 83.9 2.76 96.8 98.1 83.9 5/16 A 84.5 8.96 85.8 91.6 34.5 95.5 96.8 4.16 4.66 87.7 84.5 84.5 2 ۸۱ 97.4 85.8 91.6 4.66 83.9 8.96 83.9 84.5 87.7 34.5 8.96 1.86 83.9 95.5 ٨١ 84.5 94.2 73.6 83.9 83.9 91.6 8.96 97.4 97.4 98.1 4.66 85.8 96.8 96.8 87.7 Al 2.46 87.7 87.7 98.1 73.6 96.8 96.8 4.66 95.5 ۸۱ VISIBILITY (STATUTE MILES) 98.1 73.6 84.5 84.5 91.6 95.5 4.16 4.66 3.46 8.96 83.9 85.8 ۸۱ 4.76 84.5 95.5 91.6 8.96 84.5 85.8 2.46 96.8 98.1 4.66 87.7 7 7 94.5 83.9 83.9 84.5 84.5 8.96 1.86 85.8 87.7 8.96 97.4 73.6 83.9 91.6 4.66 71 98.1 94.2 95.5 96.8 96.8 84.5 84.5 91.6 85.8 87.7 97.4 97.4 4.66 7 2% 8.96 83.9 4.66 91.6 94.2 73.6 8.96 85.8 87.7 98.1 84.5 84.5 ص ۱۸ 92.3100.0100.0100.01 84.5 4.16 94.2 92.3100.0100.0100.0 83.9 83.9 91.6 96.8 92.3100.0100.0100.0 84.5 85.8 87.7 95.5 95.5 96.8 98.1 ۸۱ 1.86 2.56 4.16 91.6 96.8 96.8 73.6 83.9 87.7 96.8 71 91.6 95.5 4.16 84.5 2.46 73.6 83.9 85.8 98.1 84.5 8.96 87.7 ۸۱ 90.3 92.3 91.0 84.5 92.3 80.0 81.3 87.1 88.4 78.7 89.7 89.7 78.1 78.1 78.7 NO CEILING 80 VI VI 0008 0008 0008 0008 Y 1 7 1 2 0 0 0 1 1 2 0 0 0 1 2000 4500 3500 2000 1200 (FEET) ¥ 20000 1500 8 8 88 2000 88 88

AI AI

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0

TOTAL NUMBER OF OBSERVATIONS

155

1811

ALA

ALAI

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13 HOURS (1 S.T.) DEC

000

		0	-	-	-	1	1	-	0	~	-	2	9	9	2	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00
	Al	69	78.	78.	78.	78.	78.	80.	81.	85.	87.	89.	91.	93.	. *6	94.	97.	000	00	00	00	8	00		00	00	00	00	00	00	00	000
	2	0	7	7	-	-	-	-	0	2	~	-	9	0	2	7	*	0	0	0	0	0	0	0	0	0	0	o	0	0	0	00
	AI	69	78	78		18	78	80	81	85	87	89	16	63	46	76	97	00	001	00	001	00	00	001	00	00	00	00	001	00	8	88
	5/16	0.		7.	-	1.	1.	1.	6.	2.	1.		9.		.2	2.	*	0	0	0	0	0.	0	0.	0	0	0	0	0.	0	0	00
	VI V	69	78	78	78	78	78	80	81	85	87	89	91		94	46	97	100	001	001	001	00	100		00	00	001	00	001		8	001
	2	0	7.	7	-				6.	.2			9.			.2	*	•	0	0	0.	0	0			0	0	0	0	0	0	00
	Ai	69	78	78	78	78	78	80	81	85	87	89	16	63	94	76	97		001	001	001	001	100		001		001	001	001	00	001	001
	*	0.	.1	.1			. 7		6.	2.	1.1	1.		•	. 2	2.	*	0.	0.	•		0.		0.		•	•	.0	•	•	0	00
	ΛI	69	78	78	78	78	78	80	81	85	87		91	93	46	46	2		001		100	001	00		001		00	001	001	001	001	000
	*	0.	-		-	1.1	1.7		6.	.2		1.1	9.	9.1	•			•.	0.	•	0.	0.	0.	0.1	•	0.	0.	•	0.	0	.0	00
	AI	69	78	78	78	78	78	80	81	85	87	8	6	63	46		97	100	100	100	100	100	100		001	100	100	001	100	001	001	001
	-	0	1.1	1.		1.1	1.1	1.1	6.	3.2	1.7	1.7	9.	•	1.2	2.			000	•	0.0	0.0	0.0		.0	0.0	0.0	0.0	0.0	•	0.	0.0
LES)	ΛI	69	78	78	78	78	78	80	81	85	87	68	6	6	46		97	100	100	100	100	100	100	100	100	100	001	100	100		001	001
VISIBILITY (STATUTE MILES)	177	0.		1.1		1.7	1.1	7.1	6.	3.2	1.7	1.7	9.		1.2	•		0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0		0.0	000
rATU1	Al	69	78	78	78	78	78	80	8	85	œ	89	6	6	94		97	-	-	001	100	001	100		100	001	100	00	100	001	100	00
TY (S'	172	0.6	8.1	8.1	8.1	8.7	8.7		6.	5.5	1.7	. 7	9.1		4.2	1.2	7.4		0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	000
SIBIL	Al	9		7	7.	7	7	08	æ	8	8	8	16	6	6		0	100	0	100	100	100	001	100	00	100	ŏ	ĭ	100	100	100	001
5	7	0.6	8.1	8 . 1	8.1	8.7	8.7	1.0	1.9	5.2		4.5	1.6	3.6		2	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ΛI	9	7	7.	7	7.	78	8	85	8	00	8	0	0	6	o.		0	2	10	0	100	10	100	ŏ	100	ŏ	100	10		ŏ	001
	21/5	0.6	8.1	8.1	8.1	8.7	8.7	0.7	•	5.2		7.6	1.6		4.5	4.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0		0.0	0.0
	۸I	-	7	3	7	7	7	00	30	00	00		3	3	0	0	*	01	2	01	10	01	2	01	2	01	2	01	2	-	-	901
	es Al	9.0	8.1	8.1	8.1	8.7	8.7	0.7	1.9	5.2	7.7	1.6	1.6	3.6	4.2	4.2	7.4	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0
		9	1	-	-	-	-	æ	00	œ	00	20	0	0	0	6	0	100	100	-	100	100	100	-	2	100	100	100	To	-	100	100
	4	0.6	8.		8.1	8.7	8.7	0.0	1.9	5.2	7.7	6.0	1.6	3.6	4.2	4.2	7.4	0.0	0.0	:	0.0		0.0	•	•	0.0	0.0	0.0	0.0		0.0	0.0
	/	-	1	1	1	-	7			8	8		6		0	o	0	=		10	4	100	100	01	2	10	2	0	2	01	2	000
	۶۵ ۸۱		8.1	8.1	8.1	8.7	8.7	1.0	1.9	5.2	7:7	6.6	1.6	3.6	4.2				0.0	0.0		0.0	•						0.0		0.0	0.0
		69 6	~	-	1	-	-	œ	8	œ	8	8	0	6	0	C	0	010	010	010	100	010	010	0070	010	0010	010	010	010	0010		0010
	AI	9.0	8.											9.E6							0.0											
		8	-	-	1		-					_		5 2				-	-	-	-			-	-	-	_	<b>e</b>	=	0010	=	-
	2	160	3	3		-	-	*	3	*	0	-		5	5	3		-	-	-	-	-	-	-	1.	:	-	-	1:	-	-	
	٨١	9	-	-	~	-	-	1	7	1	00	00	00	00	æ	00	00	0	0	0	0	0	G.	0	0	G,	0	0	0	0	5	00
O Z	E	CEILING	20000	000	16000	00	12000	8	0006	000	2000	000	2000	200	4000	200	3000	200	2000	008	1500	200	1000	906	800	200	900	200	400	38	30	80
CEILING	E	NO CE	VI N		7		7		٨١		VI		ار ا		M		M		71		٨١		٨١	AI			AI	AI	AI	AI		ALAI
		Z										_																				

TOTAL NUMBER OF OBSERVATIONS

### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMU BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16 HOURS (L S T.)

289

DEC

14.88

TOTAL NUMBER OF OBSERVATIONS

155

SMOS DIRNAVOCEANMET

CEILING							VISI	VISIBILITY (STATUTE MILES)	ATUTE MILI	ES)						
(FEET)	5	9	80 1	4	e Al	≥ 2%	2 4	۲۱ ۲۲	¥1 Y	-	% Al	*	Z AI	≥ 5/16	N AI	٥
O CEILING	-			67.7	-	67.7	67.7	67.7	67.7	67.7	7.	7.	7.	67.7	67.7	67.7
≥ 20000		76.8	76.8		76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
	0			76.8	. 9	76.8	. 9	76.8	76.8	76.8	.9	76.8	9	76.8		76.8
≥ 16000	70.3			76.8		76.8		76.8	76.8	76.8	•	76.8	76.8	76.8	76.8	76.8
	0			77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4		77.4	77.4	77.4
N 12000	70.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
	-			80.0	80.0					80.0	0		0	0	0	80.0
0006 ~1	N	81.9	81.9	81.9	81.9	61.9	81.9	81.9	81.9		81.9	81.9	81.9	81.9	81.9	
	0	.9		86.5	0	.0		•		.9		9	9	9		
7000	-	87.1	87.7	87.7	87.7	87.7	1.	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
	8	-		88.4			88.4	88.4		88.4		8			88.4	88.4
2000	80.0		90.3	0	90.3	90.3		80.3	90.3		90.3	80.3	90.3	90.3		800
	-	-		91.6	-	-	:		:	:				-	-	
141	-	92.9	93.6	-	93.6	93.6	93.6	93.6	93.6		93.6	93.6	93.6	93.6	93.6	93.6
1	10			4	*		*			4			*	*		94.2
3000	85.8	96.1	8.96	96.8	8.96	96.8	8.96	8.96	96.8	96.8	8.96		96.8	96.8	96.8	
1	-			98.7	7.86			7.86		7.86	7.86	1.86	48.7	98.7	48.7	4.86
7 2000		800		90.4	4.66	4.66		100.001	100.001	10000	100.00	100.00	100.001	0.00	100.001	0.00
	8		4.66	4.66	4.66	4.66	100.001	100.00	100.001	100.00		100.00	100.00	0.00		0.00
1500			4.66	4.66	4.66	4.66		100.001	100.001	100.00	00.00	10000	100.00	0.00	100001	0.00
	88.4		4.66	4.66	4.66	4.66	100.001	100.001	100.001	100.00		0000	00.00	0000	-	0000
> 1000	88.4		4.66		4.66	4.66	100001	10.001	100.001	100.00	00.00	00.00	100.00	0000	0	0.00
	4.83		4.66			4.66	100.001	100.00	100.001	100.001	00.00	•	10.00	0000	100.00	0.00
> 800	88.4		4.66		4.66	4.66	100.001	100.00	100.001	100001	00.00	0	100.00	0000	100.001	0.00
	4.88		7.66	7.66	4.66	4.66	100.001	100.00	100001	100.001	00.00	00.00	0.00	0000	10.00	0.00
009	88.4		4.66	4.66		4.66	100.001	100.00	10.001	100.001		0		0.00	100001	0.00
200	88.4			4.66	4.66	4.66	100.001	100.00	10.001	100.001	00.00	00.00	00.00	0000	10000	0.00
≥ 400					4.66	99.4	100.001	100.001	100.001	100.001				0000	10.00	0.00
300	88.4	98.7				4.66	100.001	100.00	•		00.00	0	00.00	0.00	10.001	
			4.66	4.66	4.66	4.66	100.001	100.00	00.00	10000		00.00	00.00	00.00	100.00	000
80	4.88	7.86	4.66	4.66		4.66	100.001	0.001	0.001	0.00	•	10.00	0.00	0.00	10.001	0.00
			7704	77.4	5.6	39.4	100001	1000	00.00	10000	00.00	000	0000	000	10000	000

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DEC

19 HOURS (1 S.T.)

		Tai	-		_	-	_	1	_	-	_		_	-	-	-	_	1	_	10	~	-	_	-	_	-	_	-	_	10	-	-	$\overline{a}$
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	Al	1.	80	80	80	8	8	83	83	90	16	92	92	92	4	96	96	66	8	8	8	8	8	8	00	00	8	8	00	8	8	00	8
	91	2	1	-	1	3	3	~	0	3	0	0	0	0	30	-	-	4	0	0	6	0	5	0	6	0	0	0	6	0	0	0	0
	> 5/16	4	80.	80.	80.	81.	=	83	83.	90.	91.	3	92	92	94.	96	98	66	00	00	00	00	00	00	00	00	00	00	00	00	00	8	8
		2	7	~	~	9	<u>m</u>	~	0	3	9		0	6	00	-	_	4	-	0	0	-	5	0	-	-1	5	0	6	0	-	0	5
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	Al	14	80	80	80	8	8	83	8	06	6	92	26		96	96	9	66	001	001	001	00	001	00	001	001	100	00	00	001	100	00	8
	_	2.	.7	.7	1.	w	6	2	0.		9.	6.	0	6.		7	-	4	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0
S	Al	74	80	80	80	81	81	83	3	06	6	26	26	26	76	96	96	66	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
MILE	7	2	~	7	~	m	m	~	0	3	0	0	0	0	00	-	-	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
75	AI	74.	30.	80.	80.	3.1.	=	83.	83.	90.	91.	35	75		94.	96	98	6	00	00	00	00	ö	ò.	00	00	00	00	00	00	00	00	8
STAT		~	2	1	~	30	m	2	6	3	9	0	0	-	8	-	_	3	5	0	0	0	10	010	70	0	10	0	0	0	010	0	5
11	71		0	0	0	-	-			0	-	2	2.	3	*		8	6	0	0	0	0	0	0	0	0		0	0	0	0	0	0
VISIBILITY (STATUTE MILES)		7	8	8 /	8	30	30	00	00	6	6	6	0	0	6	0	0	6	000	10	100	010	10	010	10	010	010	010	10	210	010	010	9
>	N Al	4.2		.0		•	•	3.6	3.9	0	1.6	5.2	2.9	2.5	8.7			7.6	0.0	0.0			0.0	0.0		0.0				0.0			à
	<b>~</b> "	7	(2)		œ	80	ထ	8	0	6	0	0		0	0		0	66	10	100	100	100	100	100	100	100	100	100	0	10	100	100	01
	21/2	.2		1.		.3		.2		. 3		6.	6.	6.	30	-	-	4.	0.0	0.	0	0.	0.	0.	0	0	0.	0.	0.	0	0.	0	0
	ΛI	74	8	80	3	6	8	0	8	36	5	6	6	92	94	96	98.	66	100	001	100	001	001	001	001	001	100	001	001	001	100	001	001
		.2	.7	. 7	1.		3	.2	0.		9.	0.	0	6.	8	-	-	4	0	0		0	0	0			0	0	0	0	0		0
	Al	74	80	80	80	8	8	83	83	06	16	8	92	26		96		66	00	00	00	00	00	00	00	00	00	00	00	00	00		00
		2	1	1	~	~	m	~	0	3	•	6	0	5	œ	-	-	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	0
	Al	74	80	80	80.	81.		83	83	90	91.	92	92	65	46	96	98	66	00	00	00	00	00	00	8	00	00	00	00	00	.00	0	00
		2	-	7	~	6	•		0	3	9	0	0	0	00	-		4	6	0	6	0	-	0	-	3	-	0	-	0	-	0	0
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	٨١	2.	6	6	6	0	.0	-	-	00		-	-	-	2	*	.9	-	1.		-		:				-			-			-
		3	-		-	3	00	8	00	30	99	0	0	5	0	0	0	5	9	9	0	9	3	0	9	0	0	0	0	-	_	0	
	9		4.4		*						0.7														7.6							5.6	•
	Al	1	1,	1	-	1	~	-	-	2	ž	2	2	~	N	2	7	2	~	2	2	7	7	2	22	7	2	22	5	?	2	22	7
o		S	8	2	2	9	2	9	9	9	9	9	9	9	2	9	9	9	9	9	2	9	9	9	9	9	9	9	2	9	2	8	
CEILING	FEET	CEILING	20000		16000		12000	1000	800	800	7000	8	2000	1	4000		3000		2000		1500		90		8		9		8		200		
5		2	۸I	٨١	AI	٨١	M	Al	IAI	^	IAI	٨١	M	^	IAI	٨	IAI	^	IAI	A	IAI	٨١	IAI	٨	IAI	٨	IAI	٨	IAI	٨	IAI	۸I	٨١

TOTAL NUMBER OF OBSERVATIONS

155

SEP.

98.7

### CEILING VERSUS VISIBILITY

MAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

H

22 HOURS (L S.T.)

0

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00.0010.0010.00 00.00100.00100.00 0.0010.0010.0010 100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 100.010 100.010 8.96 4.16 2.46 1.86 8.96 98.7 90.3 98.1 97.4 98.1 89.7 89.7 89.7 8.06 90.3 93.6 2.46 96.8 8.96 96.8 97.4 98.1 98.7 2 5/16 96.8 4.76 93.6 00.00100.0100.0100.0100.0100.0100.0100.0100.0100.0100.01 90.3 96.8 96.8 1.86 98.7 ٨I 89.7 4.76 1.86 6.06 98.7 93.6 8.96 40.6 89.7 80.3 94.2 8.96 89.7 8.96 98.1 ٨١ 96.8 93.6 94.2 8.96 8.96 98.1 98.1 98.1 7.86 90.3 % Al 97.4 4.76 94.2 8.96 8.96 86.5 96.8 93.6 93.6 98.7 89.7 90.3 98.1 ۸۱ VISIBILITY (STATUTE MILES) 8.96 4.79 97.4 98.1 98.1 98.7 7 7 93.6 4.76 4.76 8.96 96.8 98.1 800 94.2 98.1 98.7 7 8.96 89.7 1.86 89.7 8.96 97.4 90.3 93.6 2.56 96.8 98.1 86.5 97.4 98.7 90.3 89.7 7 97.4 96.8 89.7 90.3 94.2 96.8 96.8 98.1 7.86 98.1 97.4 1.86 93.6 1.86 1.68 89.7 90.3 94.2 8.96 8.96 8.96 98.7 89.7 90.3 97.4 M Al 97.4 98.1 86.5 94.2 89.7 8.96 8.96 80.3 93.6 96.8 4.16 98.1 98.7 ٨١ 4.16 8.96 96.8 98.1 93.6 4.16 90.3 1.86 48.7 89.7 90.3 94.2 96.8 40 89.0 1.96 8.76 20.0 95.5 89.0 91.6 8.76 20.0 94.8 88.4 96.1 20.0 96.8 95.5 98.1 98.1 98.1 AI 20.0 20.0 20.0 20.0 20.0 20.0 20.0 19.4 20.02 20.0 20.02 19.4

TOTAL NUMBER OF OBSERVATIONS

100.010

100.010 100.010 

98.1

0.07

1500

1200

ALAI

2500

AI AI

4500

3500

0

20.0

88

AI AI

88

ALAI

(

88

ALAI

155

200

0.0010.0010.00

SMOS DIRNAVOCEANMET

80

ALAI

88

ALAI

NO CEILING

≥ 20000

(FEET)

VI VI 00081 00081

Y 1400

VI VI

2000

## **CEILING VERSUS VISIBILITY**

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

GUANTANAMO BAY, CUBA

(FROM HOURLY OBSERVATIONS)

PERCENTAGE FREQUENCY OF OCCURRENCE

0

					_			_		_								_	_	_	_	_		_				_
VISIBILITY (STATUTE MILES)	0 11	78.5	84.5	84.5		85.1	86.9	88.1	92.0	93.0	93.7	94.6	1.56	96.3	96.6	0.86	4.66	6.66	6.66	0000	0.00	0.00	0.00	0.00	0.00	00.00	0.00	-
	≯ Al	8.5		4.5	5.1	5.1	6.9	8.1	2.0	0	1.	9.	-	•	9.	0	4.	6.66	6.	00.00	00.00	10.0	10.00	10.0	10.0	10.0	10.0	
	\$/16	2.5			7.	5.1 8	8 6.0	7.	•	0		9.	-	4	9.	0	4.	6.	6.	10.	10.	0100	10.	0100	01000	0100	01000	1
	AI	2 2 2	00	5 84	1 85	1 85	9 86	1 88	_	0	-	96 9	1 95	3 96	-	0 98	_	66 6		0100	0100	0100	0010	0010	0100	0100	0010	
	VI Š	8.	84.	84.	85.	85.	86.	88.				94.	95.	96				99.	.66	100	100	1001	100	100	100	100	100	
	*	78.5	3		85.1	85.1		*	95.0			94.6	95.1	•		0.86			6.66	0.00	0.00	0	0.00	0	0.00	0	0.00	
	*	5.5	-	5	7.	5.1	6.	-	2.0	0.	-	9.	7.		9	0	4.	6.	0.	-0	.01	-0	10.	0.	10.	0	.0	
	Al	W 10	1	8	1 8				6 0	C		9	0	3	-	6 0	-	6		0010	0100	0010	010	0010	010	-	0100	
	AI .	r a	+	8	85	85	-	88	0	0	0	0	0	0	6		0	0	66	100	100	-	100	-	100	100	100	-
	71 7	78.5		84.5		85.1		88.1			93.7		95.1	96.3		98.0		6.66	6.66			0.00		0.00	0.00	00.00	0.00	
	N1 2	8.4	. 4			12.5		8	2			*	3			0.8	6	6	6.6	0	0	0.0	0.0		0.0	0.0	0.0	-
	~	10 m	36	1 00	-	.1 8	8 6.		0	6 0 .		6 9.		100		0.	5.	6 6.	0.	0100	.01	.010		10.		.040	.010	
	٨١	2 2	3	5 84	1 85	1 85		1 88	3	6 0	0	6 9	1 95	3 96	96 9	86 0	9	8 99	8	9100	-	9100	0016	9100	9100	0016	9100	
	1 2%	78		20	85.		86.		92.		93.		95.	96.	96.	98.	.66	.66	.66	.66	66	66	.66	66	66	66	.66	000
	M Al	78.5	. 4	84.5		85.1	86.9	68.1		3	93.7	94.6	1.56	96.3		98.0	4.66			6.66		6.66		6.66	6.66		6.66	
	4	78.5	. 4	84.0		12.58	86.9	38.1		93.0	93.7		95.1	80.9		0.86		8.60		6.66	6.60	6.60		6.60	6.66		6.66	
	87	iù a	1 5	in	7.	7.	0.	7.	0	0		0	7.	9	9.	0	*	40	0	00	<b>∞</b>	8	100	æ.	8.	20	3	
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	71	41.6	45.8	45.8	45.9	45.9	46.5	47.0	49.3	49.9	50.6	51.3	51.8	52.5	52.7	53.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	34.4	54.4	54.4	
CEILING	<b>(</b>	NO CEILING	1	16000	000	12000	0000	0006	9000	2000	0005	2000	1500	4000	3500	3000	2500	2000	1800	1500	1200	0001	8	800	700	900	200	-
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0

0

TOTAL NUMBER OF OBSERVATIONS

1240

101

6.66 6.66

98.9 99.8 99.9

54.4 54.4 54.4

88

6.66

8.66 6.86

80

ALAI

300

ALAI

6.66

### CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CUANTANAMO BAY, CUBA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST.)

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12

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AI I	•	8	<b>VI</b>	E AI	≥ 2%	7 2	71 71	YI %	-	% AI	*	VI Z	≥ 5/16	NI N	O Al
	00	4.69	69.5	9.69	69.6	69.6	84.4	69.6	9.69	69.6	69.6	69.6	69.6	84.4	69.6
			4	84.4	4	*	*	*	4	4.	*	4			
	4		84.4	*		84.5	*	84.5	*		84.5	4	4 .	*	84.5
1		84.6	84.7	84.8	84.8	84.8	84.8	-	84.8	84.8	84.8	100		84.8	84.8
_	6		85.3	85.4	3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
~	2.		87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4		87.4
-	6.	87.9	88.0	88.1	8		88.1	8		8		8			88.1
0	0.		92.2	92.3	92.3		2.		2.		92.3		2.	•	92.3
6				8.26	2	95.8	95.8		95.8			95.8		95.8	
0				93.0									93.0		93.0
			93.3			4.66	43.4		4.66	m	43.4	93.4		93.4	4.66
0		6.66	93.5	3	93.6	93.6	93.6	3	6	93.6					
0	5.0			2.46	;	2.46		94.2		;	2.46	94.2			2.46
6	0		2.56	62.3		5			2	2		5	3		95.3
0	4		96.7		9		.0	8.96	. 9	.0		.0	96.8	8.96	96.8
0			4.86	68.8	•	98.0	98.6	98.6	50	98.6		98.6	98.6		98.6
5	0		66.3		6	6.66	66.8		6				8.66	99.5	99.5
6	7.9		66.3	4.66			6	•	6			6	6		99.5
6	-	3.66	4.66		9.66		2.66	6	1.66	1.66	40.66	1.66	1.66	4.66	7.66
6	98.1	2.66	4.66	9.66		1.66	1.66	4.66	6	6			49.7	49.7	40.66
6	2	6	9.66	8.66	6	8.66		6.66		6		6.66	6		6.66
86	.2	4.66	9.66	6		6			6.66	6.66	6.66	6.66	6.66	6.66	6.66
0	.2	4.66	9.66	6	8.66	6			10.00	00.00	10.00	00.00	00001	100.001	0.00
98	.2	4.66	9.66					16.66		00.00	00.00	0.00			0.00
86	N	4.66		8.66	6	6.66		16.66	ċ		10.00	0000	0000	100.001	0.00
68	.2	4.66	9.66	8.66	8.66	6.66	6.66	16.66	0.0	00.00	00.00	00.00		100.001	0.00
0	3 . 2			8.66	6	6.66	6.66	16.66	0.0	00.00	00.00	00.00	00001	10000	0.00
	3.2	4.66	9.66		6	6.66		16.66	00.00	00.00	10.00	00.00	0	10000	0.00
	.2	6		8.66	6	6.66	6	16.66		00.00	0	00.00	0000	100001	0.00
	. 23	4.66	9.66	6	•		6	16.66	00.00	00.00	•	0.00		10.001	0.00
3	8.2	4.66		8.66	8.66	6.66	6.66	16.66	00.00	00.00	00.00	00.00	0000	100.00	0.00

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TOTAL NUMBER OF OBSERVATIONS

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11706 STATION

GUANTANAMO BAY, CUBA

STATION NAME

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	OBS.	155	155	155	155	155	155	155	155		1240
MEAN	SKY COVER	2.0	2.0	3.0	3.4	1:4	3.8	3.3	5.4		0.60
	10	3.9	3.9	3.5	5.5	4.5	3.2	4:5	3.9		0.4
	6	4.5	5.6	5.2	1.9	7.1	6.9	4.5	2.6		:
	80	1.9	1.9	3.9	7.7	4.5	8.8	5.2	1.3		0.4
KY COVER	7	5.6	3.2	3.9	4.5	5.8	5.5	7.1	3.2		:
OF TOTAL S	9	9.	5.6	1.9	5.5	7.1	4.5	5.5	3.9		0.
OF TENTHS	5	5.6	3.2	5.8	3.9	4.4	8.4	3.9	8.8		4
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	4	3.9	3.9	6.5	10.3	7.7	4.6	6.5	5.5		7.99
PERCENTAGE	8	7.7	5.8	15.5	7.1	18.1	18.7	11.0	4:1		11.7
	2	7.6	10.3	15.5	21.3	17.4	11.0	14.8	12.9		16.1
	1	11.0	14.8	22.6	24.5	16.8	22.6	19.4	10.1		80
	0	51.6	47.7	16.1	8.4	1.3	4.5	18.1	35.5		22.0
HOURS	(L.S.T.)	10	40	07	10	13	16	19	22		IIS
	MONIN	NAL									TOTALS

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SKY COVER

GUANTANAMO BAY, CUBA

STATION NAME

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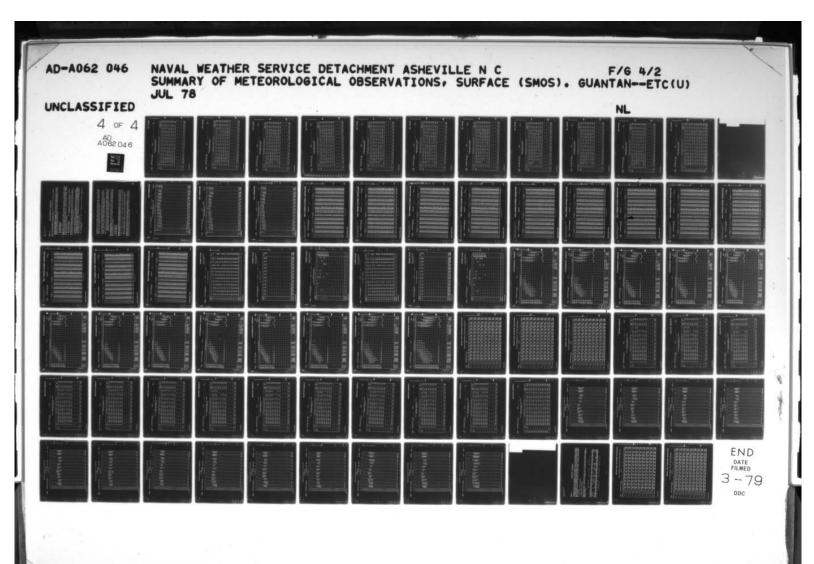
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73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)
P.S.
CENTAGE FREQUENCY OF OCCURR (FROM HOURLY OBSERVATIONS)
PERCENTAGE (FROM

TOTAL	OBS.	141	141	14.	141	141	141	141	141		1128
MEAN	SKY COVER	1.7	1:1	3.1	3.2	3.9	3.8	3.5	5.4		2.9
	10	2.8	2:1	5:7	4:3	5.7	4:3	3.5	5.0		4.2
	6	1:4	2.1		1.4	2.8	4.3	2.8	:		2.0
	8	7.	1:4	5.0	7.1	4.3	5.7	8.5	1.4		4.3
KY COVER	7	4.3	3.5	7.8	3.5	7.8	5.7	5.7	6.4		5.3
OF TOTAL S	9	.7	2.8	2.1	4.3	4.9	5.7	2.8	3.5		3.5
OF TENTHS	2	3.5	2.1	7.1	7.1	5.7	5.0	4.0	3.5		5.1
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	4	5.7	2.1	7.8	7.1	10.6	11.3	12.1	4.9		7.9
PERCENTAGE	3	4.9	4.9	7.8	11.3	18.4	15.6	9.2	3.6		10.5
	2	8.5	7.8	12.8	16.3	21.3	21.3	15.6	13.5		14.6
	-	16.3	18.4	30.5	24.8	15.6	18.4	25.5	18.4		21.0
	0	49.6	51.1	13.5	12.8	1.4	2.8	7.8	33.3		21.5
HOURS	(L.S.T.)	10	40	10	10	13	16	19	22		NLS
	MONIH	FEB									TOTALS

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SKY COVER

GUANTANAMO BAY, CUBA STATION NAME

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAC	SE FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONIN	(L.S.T.)	0	-	2	3	4	5	9	7	8	6	01	SKY COVER	088.
MAR	10	61.3	9.0	6.5	3.9	4.5	3.6	1.9	1.3	1.3	3.2	4.5	1:1	155
	8	57.4	12.9	7:7	4.5	5.5	1.9	1.3	1.9	1.9	1.9	3.2	1.6	155
	10	24.5	32.9	9:7	7.7	1.9	4.5	3.5	8.8	3.2	5.8	.6	2.5	[55
	91	11.0	32.3	20.0	11.0	7.7	3.2	3.2	1.3	5.8	2.6	1:9	2.7	155
	13	3.2	29.0	27:7	13.5	12.3	3.2	1.9	3.9	1.9	1.9	1:3	2.7	155
	91	5.8	25.2	20:02	16.8	7:1	6.5	2.6	5.8	7.1	1.9	1:3	3.2	159
	61	10.3	20.0	14.2	11.6	7.7	9.0	2.6	7.1	5.8	4.5	7:1	3.8	155
	22	47.1	12.3	11.0	8.4	3.9	2.6	1.9	5.2	1.3	1.3	5.2	2.1	155
TOT	TOTALS	27.6	21.7	14.6	9.7	6.3	4.2	2.3	0.4	3.5	2.9	3:1	2.5	1240

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SKY COVER

GUANTANAMO BAY, CUBA 11706 STATION

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	Y OF TENTH	S OF TOTAL	SKY COVER				MEAN	TOTAL
*	(L.S.T.)	0	1	2	3	•	5	9	7	8	٥	01	SKY COVER	OBS.
APR	10	52.7	14:1	6.7	1.4	2.7	3.3	2.0	€.€	L:+	2.0	3.3	1.9	150
	40	54.0	13.3	7.3	8.0	2.7	3.3		3.3	4:7		2:7	1:1	150
	10	24.7	16.7	18:7	8.0	0.0	4.0	2.7	4:0	5.3	4.7	3.3	2.9	150
	10	8.0	23.3	10.7	26.0	8.7	4.0	4.7	4:0	5.3	7.2	2.7	3.3	150
	13	3,3	16.0	18.0	19.3	14.0	0.9	2.0	4:7	8.0	4.0	1:4	3.9	150
	91	5.3	15.3	9.3	16.7	10.0	5.3	8.7	6:7	4.9	10.0	0.9	4.5	150
	19	7.3	11.3	12.7	10.0	4.9	8.7	8.0	9.3	10.0	10.0	6:0	4:8	150
	22	36.7	8.7	10:7	10.7	0.0	4.0	5.3	2.7	0.9	3,3	0:0	5.8	150
TOTALS	8	24.0	6.41	11.8	12.0	7.6	4.0	4.3	8.4	6.9	4.0		3.2	1200

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SKY COVER

11706 STATION

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GUAKTANAMO BAY, CUBA

STATION NAME

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	NO. OF	155	133	155	155	155	155	155	155		1240
MEAN	SKY COVER	3.6	3.6	6.4	5.3	5.5	6.9	6:0	4:7	+	5.2
	10	11.6	9.0	12.9	16.1	12:9	14:2	15.5	14:8		13.4
	6	5.2	6.5	11:0	8.4	10.3	9.0	14.2	7.1		0.0
	8	5.2	5.8	5.8	8.4	9.0	19.4	21.3	4.8		10.4
SKY COVER	7	3.9	5.2	7:1	5.2	5.8	15.5	14.2	5.2		7.8
S OF TOTAL	9	3.9	3.2	5.8	5.2	5.8	5.5	5.5	2.6		4:0
Y OF TENTH	3	5.5	7.1	5.8	5.8	9.7	10.3	6.9	7:7		7.3
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	*	4.8	0.6	5.8	13.5	12.3	13.5	9.0	7.7		.:
PERCENTAG	8	11.6	0.6	13.5	13.5	16.1	3.9	4.8	9.0		10.6
	2	9.0	10.3	13.5	11:0	11:0	3.9	3.9	14:8		9.8
	-	9.0	7.7	10.3	9.7	6.9	5.2	1:3	9.7		7.4
	0	27.1	27.1	7.7	2.6			•	12.9		9.6
HOURS	(LS.T.)	10	*0	10	10	13	91	67	22		TIS .
HINOW		HAY					.41				TOTALS

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#### SKY COVER

GUANTANAMO BAY, CUBA STATION NAME 11706

STATION

13-11

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MEAN TOTAL TENTHS OF NO OF		5.3 11:3 4:5 150	3.3 12:7 4.4 150	10.7 16.7 6.0 150	10.7 13.3 6.2 150	11.3 17.3 6.3 150	18.0 22.7 7.4 150	 15.5 21.3 7.1 150
2	8	8:7	10.0	12.0 1	13.3	12.7	22.7 1	16.0
SKY COVER	7	10.0	4:0	12.7	16.0	13.3	11.3	16.0
S OF TOTAL	9	2.7	6.7	4.7	8.0	6.7	5.3	5.3
Y OF TENTH	2	7.3	6.7	7.3	11.3	8.7	4:7	8.7
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	7	10.0	E • [ ]	10.7	1.9	10.7	2.7	4.7
PERCENTAG	3	10.7	6.9	9.3	10.0	8.7	6.0	6.0
	2	8.7	12.0	6:0	6.0	3.3	3.3	1.3
	-	4.0	6.7	4:7	3,3	5.3	2.0	•••
	0	21.3	17.3	5.3	1.3	2.0	1.3	1.3
HOURS	(LS.T.)	10	*0	10	01	13	16	13
	MONTH	NOC						

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SKY COVER

11706 GUANTANAMO BAY, CUBA

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	SKY COVER OBS.	3,6 155	3.2 135	4.3 155	4.5 155	4.9 155	6.1 155	6:3 155	4:3 155		
*	SKY			*	•	*	•	•	*		
	01	1:1	1:9	3.2	4:5	3.9	7:1	12:3	7:7		
	6	1.0	1.9	5.2	5.2	11.6	17.4	11.0	2.6		
	8	3.9	4.5	7.1	9:0	7.7	18:1	15.5	5.8		
SKY COVER	,	7:1	3.9	7.1	5.8	7:7	8.4	12.3	11.6		
OF TOTAL	9	1.9	5.8	7.7	7.7	6.5	2.6	4.1	6.5		
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	5	10.3	6.9	12.3	9.0	11.0	16.1	12.9	5.2		
E FREQUENC	4	0.6	13.5	14.8	14.2	14.8	4.4	7.1	13.5		
PERCENTAG	3	18.7	20.0	13.5	17:4	13.5	9.0	11.6	1.91		
	2	13.5	13.5	10.3	18:1	15.5	5.8	3.0	11:6		
	1	8.4	12.3	13.5	5.2	3.2	5.5	3.9	7.7		
	0	18.1	16.1	5.5	3.9	4.5	•		11.6		
HOURS	(L.S.T.)	10	*	10	01	13	91	19	22		
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SKY COVER

GUANTANAMO BAY, CUBA 11706 STATION

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOURS				PERCENTAG	SE FREQUENC	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(L.S.T.)	0	-	2	8	•	3	9	7	8	٥	10	SKY COVER	NO. OF
AUG	Oï	16.1	7.7	14.8	20.0	11.0	4.6	5.2	3.2	1.9	3.9	5.9	3.6	155
	*	15.5	8.4	13.5	22.6	8:4	8.4	1.9	3.9	5.8	4.5	7:1	3.6	155
	07	1:9	8.0	9.0	11:0	7.1	14.8	5.8	9:7	18:1	7.7	5.8	5.4	155
	01	••	3.2	12.9	13.5	12.3	12.9	9.6	12.9	10:1	7.1	4.5	5.3	155
	13		5.8	6.5	11.6	12.3	17.4	9.0	7:7	14.8	9.7	5.5	5.6	155
	91	•	1.9	5.8	5.2	0.6	14.8	4.1	10.3	23.2	13.5	5.8	4:0	155
	19	1:3	2.6	3.2	9.7	0.6	11.0	4.5	12.3	23.2	13.5	9:7	6.9	155
	22	11.0	4:5	12.3	14.8	16.8	9.0	6.5	7:7	7.7	3.2	5.8	4.3	135
											1			
101	TOTALS	6.0	5.4	9.6	13.6	10.7	12.3	5.8	8.5	13.9	7.9	6.3	5.1	1240

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#### SKY COVER

GUANTANAMO BAY, CUBA STATION NAME 11706 STATION

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	OBS.	150	150	150	150	150	150	150	150		1200
MEAN	SKY COVER	6:4	4.5	0.0	5.6	6.9	7.6	7:3	5.5		0.0
	10	14.7	10:0	9:3	10.0	[3,3	18:0	14:7	12.7		12.8
	6	0.4	*:	12.0	10.7	12.0	21.3	19.3	0.0		11.3
	8	8.0	5.3	19.3	10.7	16.0	23.3	22.0	11.3		14.5
SKY COVER	7	0.0	8:7	6.7	14.0	11.3	14:7	13.3	10.7		7.1 10.7
OF TOTAL	9	0.9	4.1	6.7	7.3	7.3	0.0	10.0	1.0		7.1
Y OF TENTHS	2	11.3	7.3	10.0	8.7	14.0	4:4	6.7	16.0		9.6
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	*	10.0	12.0	14.0	16.0	13.3	7.3	0.9	10.1		11.2
PERCENTAG	3	12.7	17.3	11.3	12:7	6.7	3.3	4:7	11.3		10.3 11.2
	2	12.7	10.7	6:7	5.3	2:7		2.0	6.7		9.6
	-	5.3	8.7	2.0	4:0	1:3		.,	5.3		3.5
	0	6.3	8.7	2.0	.7.				¥:4		3.3
HOURS	(L.S.T.)	10	*	10	10	13	16	19	22		STI
	MONIH	SEP									TOTALS

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SKY COVER

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STATION NAME

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	2	1 2
100	2.9 12.3	5.2 12.9 12
10-1	0.3 11.6	7.7 10.3 11
=	6.5 10.3	-
1	9.0 12.3	7.7 9.0 II
9.7	5.2	
3.9	3.2 3	
-	1:3 11:6	
=	7:1 11:0	
0	6.9 10.3	-
		10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3

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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	NO. OF	150	150	150	150	150	150	150	150			
MEAN	SKY COVER	3.6	3.5	5.0	5.0	5.7	5.9	5.2	3.6			
	10	£;11	6:7	0.9	0:0	10:01	6.7	11.3	8:7			7.0
	6	2.7	2.7	14.0	10.7	10.0	16.0	4:7	3.3			8.0
	8	0.4	6.0	10.0	9.3	12.7	10.7	11.3	3.3			4.8
SKY COVER	7	5,3	4:7	6.7	10.7	8.7	10.7	8.0	5.3			3.8
S OF TOTAL	9	4.7	4.0	5.3	6.0	7.3	7.3	8.0	4.0			8.8
PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	5	4:7	8.7	9.3	6.7	9.3	13.3	9.3	11.3		1	0.1
E FREQUENC	4	8.0	10.0	8.0	14.0	13.3	10.7	14.7	7.3		1	10.8
PERCENTAG	8	10.7	[3,3	14:7	12.7	17.3	12.0	13.3	16.7			3
	2	12.0	10.01	10.0	12.7	8.0	4.0	10.7	14.0			10.2
	-	10.7	12.7	14.0	8.7	2.7	0.0	5.3	9.3			8.7
	0	26.0	21.3	2.0	2.7			3.3	16.7			9.2
HOURS	(L.S.T.)	10	40	01	9	13	10	19	22			STI
MONTH		NOV									27	TOTALS

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SKY COVER

11706 STATION

GUANTANAMO BAY, CUBA STATION NAME

73-77

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

06C 01 04 04 07 07 07 07 07	(L.S.T.)							PERCENIAGE PREQUENCY OF IENIHS OF ICIAL SKY COVER	SKI COVER				WEAN	TOIN
		0		2	3	7	5	9	7	80	6	02	SKY COVER	0.00
0 0 7	10	38.7	12.9	12,3	10.3	4.5	3.9	2.6	1.9	4.5	6.1	6.5	2,5	155
0 7	90	38.1	1001	9:7	13.5	6.5	5.2	1.9	•	1.3	4.5	2.6	2.2	155
•	1	0.6	14.8	12.9	16.8	14.8	7.1	5.6	3.9	9.4	5.2	4:5	3.9	155
	10	7.1	14.8	11.0	17.4	10.3	7.7	10.3	7:7	5.8	1.3	6.5	1:,	155
13	9	1.3	7.1	11.6	16.8	13.5	10.3	7.1	8.4	9:0	1.7	7:7	5.0	155
•	91		11.6	18.1	15.5	11.0	6.5	5.8	7:7	6.5	1.7	9:7	4.8	155
-	16 1	17.4	12.9	12.9	14.8	7.7	5.2	3.2	5.8	6.5	3.5	10.3	3.8	155
~	22 2	29.7	12.3	10.3	14.8	7.7	5.6	2.6	2.6	7.1	5.6	4:5	3.0	155
		10												
TOTALS	-	17.7	12.8	12.4	15.0	9.5	6.5	4.5	8.4	6.1	2.4	6.5	3.7	1240

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#### SKY COVER

GUANTANAMO BAY, CUBA 11706 STATION

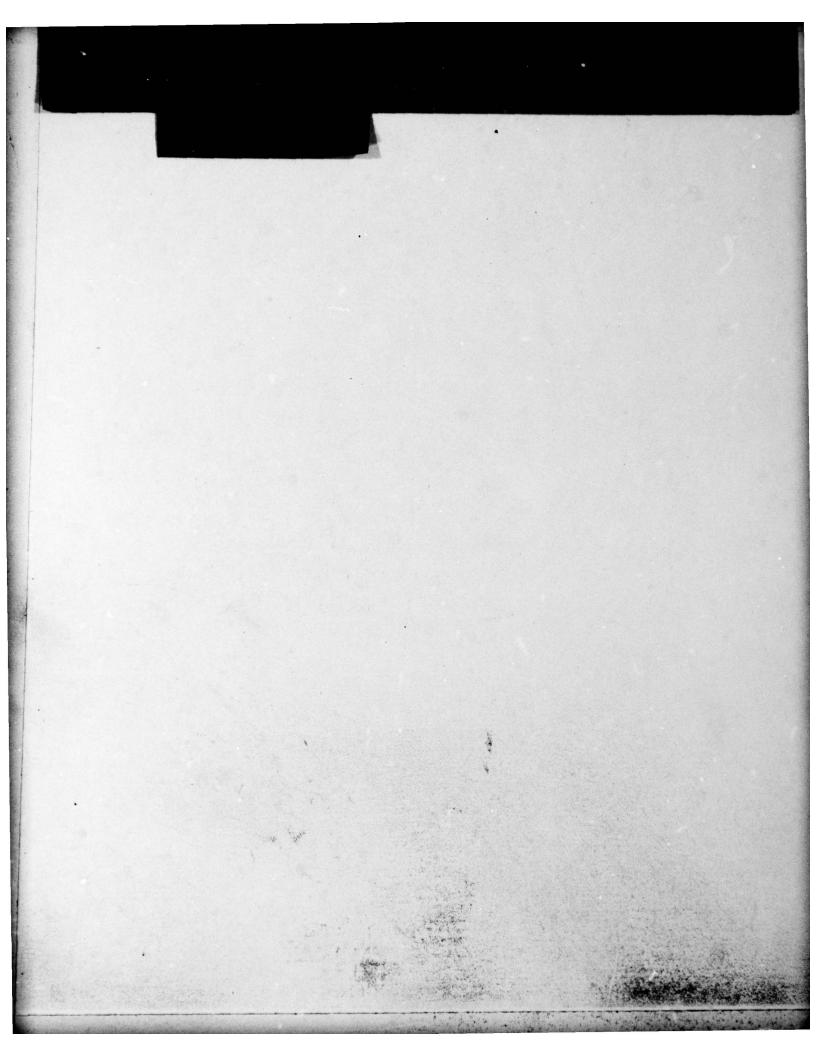
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PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	HOLIPS				PERCENTAG	E FREQUEN	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER	S OF TOTAL	SKY COVER				MEAN	TOTAL
MONTH	(LS.T.)	0	-	2	8	7	5	9	7	8	6	10	SKY COVER	OBS.
NVC	שרו	22.9	18.5	14:1	11.7	1.9	5.4	3.9	4:4	0.4	4.4	4.0	3.0	1240
FEB		21.5	21.0	14.6	10.5	7.9	5.1	3.5	5.3	4.3	2.0	4:2	2.9	1128
MAR		27.6	21.7	14.6	9.7	6.9	4.2	2.3	4.0	3.5	5.9	3.1	2.5	1240
APR		24.0	14.9	11.8	12.9	7.6	4.8	4.3	4.8	6.3	4.0	4:1	3.2	1200
MAY		9.8	7.4	9.8	10.6	6.6	7.3	4.6	7.8	10.4	9.0	13.4	5.5	1240
NOC		8.1	4:4	5.7	8.4	7.8	7.9	5.8	11.8	13.7	6.6	16.3	5.9	1200
วกก		7.5	7.4	11.5	15.0	12.1	10.4	6.1	8.0	9.0	7.1	6:0	4.7	1240
AUG		0.0	5.4	9.8	13.6	10.7	12.3	5.8	8.5	13.9	7.9	6.3	5.1	1240
SEP		3.3	3.5	5.9	10.3	11.2	9.6	7.1	10.7	14.5	11.3	12.8	0.0	1200
100		4.5	9.0	6:0	10.3	11.5	10.3	8.2	9.6	12.8	7.9	12.9	5.7	1240
NOV		9.2	8.7	10.2	13.8	10.8	9.1	5.8	7.5	4.8	8.0	8.6		1200
DEC		17.7	12.8	12.4	15.0	9.5	6.9	4.5	4.8	6.1	4.2	6.9	3:7	1240
101	TOTALS	13.5	10.9	10.6	11.8	6.3	7.7	5.5	7.3	6.9	9.9	8:3	*:	14608

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#### PART E

### PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dev points, and relative The order and manner of presentation follows: humidity.

- Cumulative percentage frequency of occurrence derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows: i
- . Daily maximum temperature
- . Daily minimum temperature
  - c. Daily mean temperature
- available. Extremes are provided for a month if all days for a month contain valid observations. All months Extreme values - derived from daily observations with extreme value given for each year and month of record for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. of daily extreme temperatures are prepared: i
- a. Extreme maximum temperature b. Extreme minimum temperature
- NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
- Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided: 3
- of observations with dry-bulb and depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb Also provided for each dry-bulb temperature interval is the total no. which may require two pages in some cases. 8
- NOTE: A percentage frequency in this table of ".O" represents one or more occurrences amounting to less

- Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares  $(\Sigma X^2)$ , sums of values  $(\Sigma X)$ , means  $(\overline{X})$ , and standard deviations  $(\sigma X)$ . The number of observations used in the computations for each element is also shown.
- dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month. At the lower right of the form are given the mean number of hours of occurrence for six ranges of :
- Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.
- Means and standard deviations These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
- Dry-bulb temperature Wet-bulb temperature
- Dew-point temperature
- Cumulative percentage frequency of occurrence of relative humidity This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables. 3
- Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary. è
- Percentage frequency of occurrence of dry-bulb temperature versus wind direction This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm). 9

### DAILY TEMPERATURES

MAXIMUM

1	JAN.	EB.	MAR.	APR.	WAY	Š	JUI.	AUG.	SEP.	OCT.	NOV	DEC.	ANNOAL
100	-						2						9
6 6					9.	3.0	5	10.4	4.2	1.0	7 40		2.5
200	1	2.0	4.1	Beel	28.3	0	03.7	+	97.0	0015	20.00	203	54.9
0 0	44.0	40.0	020	12.7	000	9000	4.46		97.3		100	20.0	18.5
9	23.2	93.2	**	78.0	78.0	27.2	100.0	100.0	96.6	7.66	77.0	19701	78.1
0	24,0	33.8	39.1	29.4	1000	100.0	-		100.0	1000	1000	100.0	77.9
0	100.0	100.0	100.0	100.0									100.0
1													
						-							
	-												
	+												
	+												
	-												
	-						-						
MEAN	83.9	II	85.2	86.3	87.5	89.2	8.06	6.06	90.2	98.6	87.2	84.8	87.4
S. D.	2.867	2.953				2.971	2.745	2.835	2.778	L	2.585		3.759
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GUANTANAMO BAY, CUBA

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### DAILY TEMPERATURES

GUANTANAMO BAY, CUBA

45-77

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	85	90	75			96 09	55 100															MEAN 68.0	S.D. 2.6	TOTAL OBS.
JAN.			.2	30.3	91.0		_																_	266
FEB.			. 4	36.4	89,5	99.4																58.8		606
MAR.		7	1.9	55.9	97.6	100.0																2.69	2.590	266
APR.			11.9	79.4	99.5	0.001																71.5	2.584	989
MAY		9.	37.9	96.5	100.0																	73.8	2.249	1023
NOT .		1.0	69.2	9.66	100.0																	75.5	1.740	984
JUL.	~	1.4	78.3	100.0												9						75.7	1.676	1021
AUG.		1.7	78.8	6.66	100.0															-		75.8	1.782	1022
SEP.		1.3	76.8	8.66	100.0																	15.6	1.725	066
OCT.			52.3	2.66	100.0																	24.6	1.715	1020
NOV.		.2	16.0	89.7	60.66	100.0																72.3	2.320	686
DEC.			6.	54.0	96.0	99.66	100.0															69.8	2.631	1020
ANNOAL	0.		35.8	78.6	97.8	99.9	10000															72.5	3.658	11945

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### DAILY TEMPERATURES

MEDN	DEC. ANNUAL	8.6	17.1 59.0															-							77.4 80.2	3.241
	NOV.	.3	63.3	98.7	100.0					1												9			80.0	
	OCT.	6.2	88.1	6.66	100.0																				81.8	
RENCE	SEP.	23.4	94.9	6.66	100.0																				83.1	
CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)	AUG.	36.2	98.9	100.0																					83.6	
QUENCY (SERVATION	JUL.	30.1	8.66	100.0																					63.5	
FROM DAILY OBSERVATIONS)	JUN.	14.8	93.6	6.66	100.0																				82.5	
(FROM	MAY	6.3	72.3	99.5	100.0																				80.9	
UMULAIIV	APR.	8	6.82	9.96	100.0																					400
,	MAR.		23.2	8.06	99.7	100.0																			77.7	200
	FEB.		0.0	79.0	99.2	1																			76.4	
	JAN.		5.1	78.6	98.8																				76.2	
	TEMP (PF)	88	080	75	70	65																			MEAN	
	F	AI	Al	Al	AI	Á	AI	A1	۸I	A1	A			AL	A1	 	 41		 					 N AI		

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### NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

GUANTANAMO BAY, CUBA

STATION NAME

1946-1977

YEARS

MONTH JANUARY

1956# 1965\* 1977\* DATE 976 956 1956 1956 956 1936 1956 1956 956 956 1958 1955 1956 1956 1956 966 1954 1968 1963 1956 1956 1977 1977 1976 1951 1977 16.7 13.9 15.0 15.6 15.0 16.7 15.6 15.6 13.9 15.0 16.7 17.2 17.8 18.3 17.8 17.8 16.7 15.6 14.4 15.0 17.2 1601 1661 1601 16.1 16.1 EXTREME MINIMUM TEMP 20 2000 60 9 57 59 62 69 63 90 69 90 49 63 6.9 62 62 62 61 19 9 9 9.6 19.7 20.4 20.4 20.2 6.61 9.6 19.8 19.8 19.7 19.9 20.1 20.1 AVERAGE 67.8 67.6 67.9 67.6 67.4 67.8 68.8 68.2 68.0 68.7 67.9 67.8 67.6 67.5 68.2 68.1 67.7 68.6 67.8 67.8 67.7 67.5 68.0 68.3 68.3 67.3 68.6 1964\* 1967\* 1964\* 1969\* 1967\* 1961 1954\* 1960\* 1958 1954 1954 1954 1956 1959 1964 1948 1960 1977 1954 1977 1954 1954 1954 1967 1954 1954 1959 1959 1977 1964 1961 31.7 31.7 31.7 30.6 32.2 31.7 32.8 32.2 31.7 31.7 31.7 32.8 31.7 32.2 31.1 31.7 35.0 32.2 32.2 31.1 31.1 EXTREME MAXIMUM TEMP 68 83 88 90 89 9888 806 225 80 3 88 6 28.6 28.4 28.8 28.6 28.6 28.8 28.7 28.9 28.7 29.2 29.0 28.7 28.4 29.2 28.9 29.3 28.9 28.8 28.8 28.8 28.8 29.1 29.1 29.1 AVERAGE 83.6 83.5 83.6 83.5 83.2 83.9 83.8 83.7 84.6 84.6 83.9 84.6 83.9 83.7 83.8 84.0 84.1 83.9 84.4 84.4 83.8 84.2 84.1 24.2 24.2 24.3 24.2 24.3 24.2 26.3 24.5 24.3 24.3 24.2 24.3 26.1 24.2 24.3 24.8 24.2 MEAN TEMP AVERAGE 75.5 75.8 75.5 75.7 75.6 75.7 75.6 75.8 75.5 75.7 76.0 75.8 76.7 76.2 75.9 75.7 75.6 75.7 76.4 76.1 76.7 76.1 Monthly 15 16 18 19 DAY 12 17 20 22 23 24 25 56 53 30 9 6 10 = 13 4 27 28 S 00

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'ALSO ON EARLIER YEARS

STATION 11706

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

GUANTANAMO BAY, CUBA

11706 STATION

9,

STATION NAME

1966-1977

YEARS

MONTH FEBRUARY

		DATE	.2	.2 1958	1958	0.	.9 1958	0 1966	.2 1970*	.1 1973	.7 1973	6 1976	.7 1976*	-	.7 1973*	.2 1962*	.8 1962	.3 1962#	.2 1958*	.7 1958*	.7 1958	*6961 9*	6961 9	6 1958	.2 1973*	*6961 1.	*6961 8*	.2 1968	.7 1951*	.7 1951*	.8 1952			
MINIMUM TEMP	EXTREME	၁့		63 17	59 15	59 15	57 13	59 15	63 17	61 16	62 16				62 16				63 17,	62 16	62 16.		60 15	60 15	63 17	62 16	64 17	63 17	62 16					
MINIM		°c °F	20.1	20.2	.2	.3		19.8	0	6	19.8		20.1	7	2	6		3	20.1	20.3	-	0	19.9	20.1	20.3			20.2	6	20.3	20.6			
	AVERAGE	٩°	68.2	4.89	68.3	68.5	68.2	67.7	68.0	67.9		67.5	68.1	68.3	4.89	67.9	68.6	68.6	68.2	68.6	68.2	67.9	67.9	68.2	9.89	68.3	68.3		67.9	68.5	69.1	4		
		DATE	1959	1962	1966	1972	1959	1959	1989	1959	1977*	1964	1948	1959	1959	1961	1946	1948	1966*	1966	*9961	1960	1961	1962*	1959	1963*	1962	1960	1966#	1963	1960			
MP	ME	၁့	31.7	31.1	31.1	31.7	32.2	32.8	33.3	31.7	31.1	3101	32.8	32.2	32.8	32.2	31.7	32.2	31.7	31.7	31.7	33.3	32.8	32.2	32.8	31.7	31.7	32.2	31.7	32.2	31.7			
MAXIMUM TEMP	EXTREME	٠ ۲ °	89	88	88	89	90	91	92	89	88	88	91	90	91	90	89	06	88	89	68	92	91	90	91	89	89	06	89	90	89			
M	GE	၁့		28.9	28.8		28.6	28.8	29.0	28.8		29.1	28.8	29.1	28.7	28.8	29.1	29.1	29.0	28.8	29.1	28.8	28.7	28.8	29.1	29.1	29.0	28.7	29.0		29.3			
	AVERAGE	°F.	84.2	84.0	83.8	83.7	83.4	83.9	84.2	83.9		84.4	83.9	84.4	83.7	83.9	84.3	84.4	84.2	83.B	84.4	83.9	83.7	83.9	84.4	84.4	86.2	83.7	84.2	83.9	84.7			
MP	3	၁့	24.6	24.6	24.5	24.5	26.3	24.3	24.5	24.4	26.3	26.4	26.4	24.7	24.5	24.4	26.7	24.7	24.6	24.6	24.6	26.6	24.3	24.5	24.7	24.7	24.6	24.4	24.4	26.6	24.9			-
MEAN TEMP	AVERAGE	9 <b>F</b>	76.2	76.2	76.1	76.1	75.8	75.8	76.1	75.9	75.8	76.0	76.0	76.4	76.1	75.9	76.4	76.5	76.2	76.2	76.3	75.9	75.8	76.1	76.5	76.4	76.3	76.0	76.0	76.2	76.9			-
		DAY	1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	

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\*ALSO ON EARLIER YEARS

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ASHEVILLE, NORTH CAROLINA

NAVAL WEATHER SERVICE DETACHMENT

GUANTANAMD BAY, CUBA

STATION

1946-1977

1977

YEARS

MARCH

962\* 972\* 1977\* 1967\* 1967\* 1967\* 1977\* 1967 1970 970 969 968 1991 969 962 1962 676 957 950 1977 1977 1981 967 1968 1951 951 1968 947 17.2 17.2 17.8 17.8 18,3 17.2 18.3 17.8 18.9 17.2 18.9 18.9 16.7 17.8 1601 18.3 16.1 EXTREME MINIMUM TEMP 63 62 63 63 90 4000 61 65 99 90 90 63 6000 6 9 61 9 9 20.9 21.0 20.8 20.4 20.4 20.6 20.6 20.2 AVERAGE 69.0 69.0 69.4 69.7 0.69 68.8 69.6 70.4 69.7 69.8 70.2 68.7 0.69 4.69 68.6 69.7 70.2 70.3 70.0 70.5 70.3 70.1 19634 1965\* 1975\* 1966\* 1963\* 1966 1977\* 1963\* 1960\* 1975\* 1963 1963 1963 1954 1948 1959 1963 9961 1963 1948 1963 1954 1954 1975 1960 1961 1961 1961 1965 32.2 31.7 31.7 31.7 32.2 33.3 32.2 31.7 32.2 32.8 32.2 32.2 EXTREME MAXIMUM TEMP 222222222222222222 848488 29.7 29.5 29.7 29.6 29.6 29.3 29.6 29.3 29.3 29.7 29.4 29.9 29.1 29.6 29.6 29.4 29.8 29.9 29.8 AVERAGE 85.4 85.4 84.8 85.0 85.3 84.5 84.8 84.4 84.7 85.6 15.2 84.7 64.9 85.3 85.8 83.8 85.1 85.1 85.4 85.8 25.0 25.3 24.7 26.9 25.0 25.2 25.3 25.3 25.3 25.7 25.3 25.1 ပ MEAN TEMP AVERAGE 77.0 77.0 77.1 77.9 78.2 78.2 12 15 16 1 18 19 24 9 9 5 Ξ 13 4 2 2 S 00 22 23 25 92 27 28 29 30

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ALSO ON EARLIER YEARS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA GUANTANAMO BAY, CUBA STATION NAME

1945-1977

YEARS

APRIL

_	MEAN TEMP	EMP			MAXIMUM TEMP	MP				MINIMUM TEMP	MP	1
_	AVERAGE		AVERAGE	IGE	EXTREME	EME		AVERAGE		EXTREME	ME	
DAY	<b>L</b> 0	၁ွ	9.	၁့	9 F	၁	DATE	, F	၁့	9°	၁ <sub>ဇ</sub>	DATE
-	78.1	25.6	85.5	29.7	90	32.2	1960*	70.7	21.5	65	18.3	1946
-	78.4	25.8	85.7	29.8	92	33.3	1954	71.1	21.7	65	18.3	1971
-	78.7	25.9	86.2	30.1	91	32.8	1960*	71.3	21.8	99	18.9	1945
	78.8	26.0	86.2	30.1	91	32.8	1975	71.3	21.8	68	20.0	1976
	79.2	26.2	86.8	30.4	92	33.3	1975*	71.6	22.0	80	20.0	1968
	78.8	26.0	86.4	30.2	92	33.3	1954	71.2	21.8	67	19.4	1946
-	78.8	26.0	86.2	30.1	92	33.3	1959	71.4	21.9	67	19.4	1950
	78.6	28.9	85.8	29.9	91	32.8	1959	71.4	21.9	99	17.8	1950
	78.4	25.8	86.0		16	32.8	1958		21.6	6.0	18.3	1950
	78.7	25.9	86.2	30.1	92	33.3	1959	71.1	21.7	99	18.9	1950
	78.9	26.1	86.2	30.1	91	32.8	1954	711.7	22.1	67	19.4	1948
	78.7	25.9	86.0	30.0	92	33.3	1962	71.4	21.9	99	18.9	1950
-	79.2	26.2	86.8	30.4	90	32.2	1964*	71.6	22.0	6.8	20.0	1972
	79.0	26.1	86.5	30.3	92	33.3	1961		22.0	70	17.8	
	78.6	25.9	86.1	30.1	92	33.3	1960	71.1	21.7	69	18.3	
	78.7	28.9	85.9	29.9	90	32.2	1966*	71.4	21.9	40	17.8	1967
	78.7	25.9	86.0	30.0	93	33.9	1959	71.4	21.9	69		19764
	78.5	25.8	85.8	29.9	9.1	32.8	1964	71.2	21.8	49	17.8	1950
-	78.8	26.0	86.5		92	33.3	1960	71.2	21.8	90		1970
-	78.7	25.9	85.8	29.9	90	32.2	1966*	71.5	21.9	63	17.2	1968
	78.7	25.9	86.3	30.2	91	32.8	1964*	71.1	21.7	63	18.3	1968
-	79.3	26.3	86.6		91	32.B	1958	71.9	22.2	99	18.9	1968
-	79.2	26.2	86.3	30.2	93		1958	72.1	22.3	99	18.9	1973
-	79.0	26.1	86.5	30.3	91	32.8	1960*	71.4	21.9	99	18.9	1973
+	78.8	26.0	86.4	30.2	91	32.8	1958*	71.3	21.8	69	18.9	1968
-	78.9	26.1	86.3	30.2	91	32.8	1960*	71.5	21.9	65	18.3	1974
	79.4	26.3	86.8	30.4	96	34.4	1958	72.0	22.2	99	18.9	1967
	79.3	26.3	86.5	30.3	76	34.4	1956	72.1	22.3	63	19.4	1049
	79.8	26.6	87.0	30.6	92	33.3	1966	72.6	22.6	69	20.6	1974
-	80.0	26.7	87.5	30.8	96	34.4	1961	72.6	22.6	67	19.4	197
Monthly												

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\*ALSO ON EARLIER YEARS

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STATION

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1967

#### NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

GUANTANAMO BAY, CUBA

STATION 11706

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12595 97991

STATION NAME

1945-1977

MONTH

MAY

YEARS

AVERAGE

EXTREME

AVERAGE

MEAN TEMP AVERAGE

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MAXIMUM TEMP

EXTREME MINIMUM TEMP

22.5 73.4

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1948 1948

1948

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1970\* 1947

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'ALSO ON EARLIER YEARS

1960\*

DIRNAVOCEANMET-SMOS

ASHEVILLE, NORTH CAROLINA

NAVAL WEATHER SERVICE DETACHMENT

11706 STATION

GUANTANAMO BAY, CUBA STATION NAME

DAY

1945-1977

YEARS

MONTH

JUNE

1974 1974# 4926 1977\* 976# 1977# 1974\* 1950# 1977\* 952\* 1976# 1956\* 1945 1946 1948 1948 1974 1975 1963 1946 1946 1977 1954 1969 20.0 1948 1977 22.8 22.2 22.8 22.8 22.2 21.7 22.8 22.8 22.8 22.2 20.6 20.6 22.2 22.2 22.2 21.1 21.7 22.8 22.8 21.7 EXTREME MINIMUM TEMP 68 13 72 69 55 73 32 30 71 22 24.0 23.9 24.2 23.6 23.6 24.3 24.0 24.1 23.9 24.3 24.4 24.2 24.4 24.2 24.3 24.3 24.0 23.9 24.1 24.1 24.2 24.1 24.1 AVERAGE 76.9 74.5 75.3 75.8 75.6 75.2 75.0 75.0 75.3 75.6 75.2 75.4 75.0 75.9 75.5 75.5 75.9 75.8 78.7 78.3 74.7 75.7 75.3 75.5 1958\* 1964 1966 1960\* 1966\* 1958# 1958\* 1962\* 9544 1958\* 1956 1960 1948 1948 1956 1948 1948 1956 1948 1962 1977 1954 1954 1954 1957 1948 1962 1954 1954 35.6 35.6 34.4 35.0 35.0 34.4 33.9 35.0 35.0 35.0 35.0 33.9 35.0 35.0 35.0 35.0 33.9 35.0 34.4 35.6 35.0 34.4 36.7 EXTREME MAXIMUM TEMP 86 96 6 68 93 95 98 96 98 98 96 96 96 96 9 5 98 95 68 95 95 96 31.8 32.0 32.4 30.9 31.6 32.2 31.8 32.1 32,3 31.0 31.0 31.4 31.5 31.8 31.8 31.9 32.3 31.0 31.7 31.7 31.8 32.1 AVERAGE 89.2 87.9 87.6 88.8 89.3 89.5 89.7 89.3 89.9 89.6 90.3 89.9 6.68 89.8 86.2 88.7 89.1 90.1 90.1 89.1 90.1 27.2 417 27.6 27.9 28.0 28.0 27.9 27.8 27.9 27.9 28.2 28.3 28.0 28.2 28.3 27.9 27.3 27.8 28.1 28.2 28.3 28.1 28.1 28.1 MEAN TEMP AVERAGE 82.8 82.8 83.0 82.9 82.2 81.0 81.6 82.0 82.2 82.4 82.2 82.9 82.5 82.4 82.6 81.7 81.2 82.4 82.1 82.3 82.7 82.6 82.3 81.1

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ALSO ON EARLIER YEARS

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Monthly

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

GUANTANAMO BAY, CUBA

11706 STATION

STATION NAME

1945-1977

YEARS

MONTH

	MEAN LEMP	EMP		2		-	-		The second secon	INTERNATION LEIGH	INIL	
	AVERAGE	GE	AVERAGE	GE	EXTREME	EME		AVERAGE	GE	EXTREME	EME	
DAY	٥, ٩	၁့	4°	၁့	9.	o°.	DATE	96	o°.	J₀ F	၁ွ	DATE
1	83.0	28.3	90.5	32.5	97	36.1	1954	75.4	24.1	72	22.2	1945
2	83.0	28.3	9004	32.4	96	35.6	1961	75.5	24.2	72	22.2	1945
3	82.8	28.2	90.1	32.3	65	35.0	1961	75.5	24.2	73	22.8	1977#
4	83.2	28.4	90.8	32.7	*	35.0	1960*	75.7	24.3	73	22.8	1977*
5	83.1	28.4	90.5	32.5	-	35.0	1961	75.6	24.2	72	22.2	1952
9	83.2	28.4	90.7	32.0	ŗ	36.1	1962	75.7	24.3	72	22.2	1947
7	83.1	28.4	90.0	32.6	96	35.6	1958	75.7	24.3	73	22.8	1977
8	82.8	28.2	90.2	32.3	95	35.0	1962#	75.5	24.2	72	22.2	1968
6	83.0	28.3	90.5	32.5	95	35.0	1954*	75.5	24.2	72	22.2	1953*
10	83.2	28.4	9006	32.6	96	35.6	1954	75.8	24.3	73	22.8	1977*
11	83.3	28.5	90.06	32.6	98	35.0	1948	76.1	24.5	73	22.8	1977*
12	83.2	28.4	90.6	32.6	95	35.0	1964*	75.7	24.3	70	21.1	1947
13	83.2	28.4	90.4	32.4	9.5	35.0	1962*	76.1	24.5	73	22.8	1950
14	83.1	28.4	90.7	32.6	96	36.7	1956	75.5	24.2	72	22.2	1946
15	83.1	28.4	90.5	32.5	95	35.0	1962	75.8	24.3	73	22.8	1952
16	83.1	28.4	6.06	32.7	96	35.6	1958	75.3	24.1	71	21.7	1972
17	83.3	28.5	6.06	32.7	97	36.1	1962	75.6	24.2	72	22.2	1977
18	83.7	28.7	90.8	32.7	96	35.6	1959	76.5	24.7	73	22.8	1977*
19	83.4	28.6	90.9	32.7	97	36.1	1960	75.9	24.4	11	21.7	1973
20	63.3	28.5	91.1	32.8	66	37.2	1948	75.4	24.1	13	22.8	1973*
21	83.6	28.7	91.2	32.9	100	37.8	1961	76.0	24.4	11	21.7	1972
22	83.3	28.5	91.0	32.8	96	35.6	1959*	75.6	24.2	72	22.2	1972
23	83.2	28.4	91.2	32.9	97	36.1	1954	75.2	24.0	72	22.2	1977
24	83.3	28.5	90.8	32.7	95	35.0	1966*	75.9	24.4	74	23.3	1974*
25	83.4	28.6	91.2	32.9	97	36.1	1962	75.7	24.3	72	22.2	1977
26	83.2	28.4	90.7	32.6	6	36.1	1962	75.6	24.2	73	22.8	1977*
27	83.4	28.6	91.0	32.8	96	35.6	1963*	75.7	24.3	72	22.2	1947
28	83.6	28.7	91.0	32.8	97	36.1	1966	76.2	24.6	73	22.8	1951
29	83.1	28.4	90.5	32.5	9.5	35.0	1964#	75.7	24.3	72	22.2	1950
30	83.5	28.6	91.1	32.8	100	37.8	1954	76.0	24.4	72	22.2	1969
31	83.8	28.8	91.7	33.2	98	36.7	1957	75.8	24.3	73	22.8	1976#
Monthly	020	,	0 40					78.7	24.9	3.		

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\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

STATION

STATION NAME GUANTANAMO BAY, CUBA

1945-1977

YEARS

AUGUST

	MEAN TEMP AVERAGE	TEMP	AVERAGE		MAXIMUM TEMP EXTREME	MP	1	AVERAGE	3E	2	MINIMUM TE EXTR	MINIMUM TEMP EXTREME
DAY	<b>4</b> °	၁့	<b>4</b> °	၁့	° F	၁့	DATE	, F	o°		9°F	°F °C
1	83.7	28.7	91.2	32.9	97	36.1	1960	76.2	24.6		72	
2	82.9	28.3	90.06	32.6	67	36.1	1960	75.2	24.0		10	70 21.1
3	83.1	28.4	90.4	32.4	97	36.1	1948	75.8	24.3		72	72 22.2
4	82.9	28.3	90.5	32.5	96	35.6	1962*	75.2	24.0		69	69 20.6
5	83.5	28.5	91.2	32.9	66	37.2	1961	75.8	24.3	1	73	73 22.8
9	83.3	28.5	90.8	32.7	97	36.1	1964	75.8	24.3	1	72	72 22.2
7	83.5	28.6		32.8	96	35.6	1961#	76.0	24.4	1	72	72 22.2
8	83.4	28.6	90.7	32.6	96	34.4	1961*	76.1	24.5		73	73 22.8
6	83.4	28.6	91.0		97	36.1	1948	75.9	24.4		73	73 22.8
10	83.6	28.7	91.3	32.9	96	35.6	1960	76.0	24.4		73	
11		28.9	91.6	33.1	66	37.2	1961	76.4	24.7		71	71 21.7
12	83.8	28.8	91.3	32.9	66	37.2	1961	76.3	24.6		73	73 22.8
13	83.5	28.6	91.2	32.9	66	37.2	1961	75.7	24.3		72	
14	83.2	28.4	90.9	32.7	96	35.6	1948	75.6	24.2		73	73 22.8
15	83.3	28.5	90.8	32.7	96	35.6	1954	75.8	24.3		73	73 22.8
16	83.7	28.7	91.4	33.0	97	36.1	1959	76.0	24.4	-	72	72 22.2
17	83.4	28.6	91.0	32.8	96	35.6	1977	75.8	24.3		10	70 21.1
18	83.7	28.7	91.3	32.9	96	36.7	1954	76.0	24.4		11	71 21.7
19	83.6	28.7	91.2	32.9	67	36.1	1959*	75.9	24.4		73	73 22.8
20	83.6	28.7	91.0	32.8	96	35.6	1955*	76.2	24.6		72	72 . 22.2
21	83.6	28.7	91.2	32.9	98	36.7	1957	76.0	24.4		72	72 22.2
22	83.4	28.6	91.0	32.8	6.5	36.1	1948	75.8	24.3	-	72	72 22.2
23	83.3	28.5	6.06	32.7	96	35.6	1964	75.7	24.3	¥.	72	
24	83.2	28.4	90.5	32.5	97	36.1	1956	75.9	24.4		73	73 22.8
25	83.5	28.6	6.06	32.7	97	36.1	1960*	76.0	24.4		73	73 22.8
26	83.4	28.6	90.8	32.7	97	36.1	1960*	76.0	24.4		73	73 22.8
27	83.0	28.3	90.4	32.4	95	35.0	1966#	75.7	24.3		11	71 21.7
28	83.0	28.3	90.4	32.4	96	35.6	1960*	75.6	24.2		10	70 21.1
29	83.3	28.5	90.8	32.7	97	36.1	1948	75.7	24.3		72	72 22.2
30	83.0	28.3	9008	32.7	95	35.0	1961*	75.2	24.0		71	71 21.7
31	83.6	28.7			97	36.1	1958#	0.	24.4		71	71 21.7
Monthly	83.4	4.8	6006	32.7	00	37.2	1961	75.8	24.3	•	0	20.6

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\*ALSO ON EARLIER YEARS

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### NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION

12595 91981

GUANTANAMO BAY, CUBA STATION NAME

1945-1977

YEARS

SEPTEMBER

MONTH

	MEAN TEMP	EMP		Ě	MAXIMOM LEMP	VIP	The state of the s		2	MINIMON LEWIS	INIF	
	AVERAGE	AGE	AVERAGE	AGE	EXTREME	ME		AVERAGE	3E	EXTREME	EME	
DAY	9 °	၁့	°F.	, o°	٥ ا	o°.	DATE	°, F	၁့	٥F	၁ွ	DATE
1	83.2	28.4	90.7	32.6	96	35.6	1960	75.6	24.2	72	22.2	1977*
2	83.3	28.5	90.7	32.6	96	35.6	1966*	75.9	24.4	72	22.2	1974
3	82.8	28.2	90.1	32.3	9.5	35.0	1961	75.5	24.2	72	22.2	1974#
4	82.9	28.3	90.3	32.4	9.5	35.0	1966*	75.5	24.2	70	21.1	1946
2	83.2	28.6	90.7	32.6	96	35.6	1957	75.7	24.3	73	22.8	1974
9	83.1	28.4	90.5	32.5	96	34.4	1960	75.7	24.3	72	22.2	1948
7	82.9	28.3	90.1	32.3	96	35.0	1959	75.7	24.3	72	22.2	1976#
80		28.3	90.0	32.2	95	35.0	1976	46	24.4	73	22.8	1954*
6	83.5	28.6	91.0	32.8	44	36.1	1957	76.0	24.4	73	22.8	1950*
10	83.4	28.6	90.7	32.6	44	36.1	1957	76.2	24.6	73	22.8	1972#
:	83.1	28.4	90.5	32.5	56	35.0	1963*	75.7	24.3	73	22.8	1977*
12	83.3	28.5	90.7	32.6	95	35.0	1963	75.9	24.4	70	21.1	1946
13	83.1	28.6	90.7	32.6	9.5	35.0	1960*	75.4	24.1	67	19.4	1973
14	83.3	28.5	90.9	32.7	96	35.6	1958*	75.7	24.3	70	21.1	1946
15	82.9	28.3	90.2	32,3	95	35.0	1956	75.6	24.2	68	20.0	1973
16	83.1	28.4	90.3	32.4	96	34.4	1948	75.9	24.4	71	21.7	1952
17	82.5	28.1	89.3	31.8	9.8	35.0	1959	75.7	24.3	71	21.7	1972
18	82.6	28.1	89.8	32.1	96	35.6	1959	75.4	24.1	71	21.7	1977
19	82.2	27.9	89.3	31.8	97	36.1	1959	75.2	24.0	70	21.1	1948
20	82.2	27.9	89.5	31.9	9.8	35.0	1958*	75.0	23.9	11	21.7	1973
21		28.2	89.8	HOD.	9.5	35.0	1958		24.2	72	22.2	1968
22	82.5	28.1	89.9	32.2	9.8	35.0	1946	75.0	23.9	72	22.2	1976#
23	82.7	28.2	90.2	32.3	9.5	35.0	1954#	75.2	24.0	71	21.7	1953*
24	82.7	28.2	90.1	32.3	98	35.0	1974#	75.2	24.0	72	22.2	1967#
25	82.9	28.3	9000	32.4	96	34.4	1964	75.4	24.1	73	22.8	1977*
26	82.8	28.2	90.2	32.3	95	35.0	1958	75.4	24.1	73	22.8	1965*
27	62.7	28.2	89.8	32.1	76	34.4	1966	75.5	24.2	73	22.8	1964*
28	82.7	28.2	90.1	32.3	96	34.4	1962#	75.4	24.1	72	22.2	1948
29	82.4	28.0	89.4	31.9	98	35.0	1962	75.3	24.2	71	21.7	1973*
30	82.5	28.1	89.9	32.2	96	34.4	1962#	75.2	24.0	72	22.2	1977
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Monthly	0 00	-		100	1	275		,	1	1		-

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\*ALSO ON EARLIER YEARS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

GUANTANAMO BAY, CUBA

11706 STATION

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STATION NAME

1945-1977

OCTOBER MONTH

YEARS

AVERAGE  OF  OF  OF  OF  OF  OF  OF  OF  OF  O	3AGE	extreme 96 93 94 94 94 94 94 95	°C C C C C C C C C C C C C C C C C C C	1956 1958 1953 1959 1959 1959 1959 1959 1959 1959	AVERAGE ° F 15.5 15.2 15.2 15.3	234775 23477	° F T T T T T T T T T T T T T T T T T T	°c 21:17 21:17 22:27 22:	DATE 1977*
82.6 28.2 90 82.6 28.1 90 82.6 28.1 90 82.0 27.7 88 82.1 27.9 89 82.1 27.9 89 82.1 27.9 89 82.1 27.9 89 82.1 27.9 89 81.7 27.6 89 81.4 27.7 88		**************************************	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1958 1958 1959 1959 1959 1959 1959 1959	10 10 10 2 10 10 10 10 10 10	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	* E	22.2 21.1 22.2 22.2 22.2 22.2 22.2 22.2	1977* 1968
82.8 28.2 90 82.6 28.1 89 81.8 27.7 88 82.4 28.0 89 82.5 27.9 89 82.2 27.9 89 82.1 27.9 89 82.0 27.9 89 82.0 27.9 89 81.7 27.6 88 81.4 27.7 89		25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	32.00 32	1958 1953* 1959* 1950* 1950* 1959* 1959* 1959*	15.55 175.50 175	2462 22662 2369 369 226620 2266200000000	27 22 22 22 22 22 22 22 22 22 22 22 22 2	21.7	1977*
82.6 28.1 89 81.8 27.7 88 82.4 28.0 89 82.2 27.9 89 82.2 27.9 89 82.1 27.9 89 82.1 27.9 89 81.7 27.6 89 81.4 27.7 88		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	935-0 935-0	1963* 1959* 1960 1960 1960 1965* 1965* 1965*	25.22	2462 22460 22	101128	22.22	1968
81.8 27.7 88 89 82.4 28.0 89 82.2 27.7 88 82.2 27.9 89 82.1 27.9 89 82.1 27.9 89 82.1 27.6 89 88 81.7 27.7 88 88 81.4 27.7 89 88 81.4 27.7 89 88 81.5 27.7 88		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	34.4	1959* 1950 1950 1950 1959 1959 1959 1959 1959	75.2	2369 2460 2460 2461 2461 2369 2369 2369	27 28 27 25	22.2	
81.8 27.7 888 82.2 27.9 89 82.2 27.9 89 82.3 27.9 89 82.1 27.9 89 82.1 27.9 89 81.7 27.4 88 81.4 27.4 88 88 81.4 27.4 88 88 81.5 27.3 88		2 4 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	35.0	1959 1962 1960 1954 1959 1959 1959 1959 1959	7552	24°0 24°0 24°1 24°1 24°1 23°9	12 22 22	22.2	1949
82.4 28.0 89 82.2 27.9 89 82.2 27.9 89 82.1 27.9 89 82.0 27.9 89 81.7 27.6 89 81.4 27.4 88 81.4 27.7 89		4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	33.00	1962 1960 1960 1965 1965 1965 1959 1959 1959 1959	25.55 25.55	24°0 24°1 24°1 23°9 23°8	72 27	22.2	1953*
82.5 27.9 82.5 28.1 82.2 27.9 82.1 27.9 82.0 27.8 81.7 27.6 81.4 27.7 81.4 27.7 81.5 27.7	2 31.8 2 31.8 2 31.8 2 31.8 2 31.8 3 31.8	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1960 1954 1965 1965 1965 1959 1959 1959 1959	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	24.0 24.1 24.1 23.9 23.8	72 72	200	1977#
82.5 28.1 82.2 27.9 82.1 27.9 82.0 27.8 81.7 27.6 81.6 27.7 81.6 27.7 81.5 27.5	2 32.0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	34.44	1954 1959 1955 1955 1955 1959 1959 1959	75.3	24.1 24.1 23.9 23.8	22 55	2009	1969
82.3 27.9 82.1 27.8 82.1 27.8 81.7 27.8 81.6 27.7 81.6 27.7 81.5 27.5	2 31.9	8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	34.4	1965# 1965# 1959# 1974# 1959#		23.8	72	22.2	1945
82.0 27.8 82.0 27.8 81.7 27.6 81.6 27.7 81.6 27.7 81.5 27.5	2 31.9 2 31.9 2 31.8	98 98 98 98	34.4	1959*		23,8	3.0	22.2	1969
82.0 27.8 81.7 27.8 81.4 27.7 81.4 27.4 81.5 27.4	2 31.9	94 94 95 95 95 95 95 95 95 95 95 95 95 95 95	33.9	1959*	74.0	23.8	71	22.2	1969
82.0 27.6 81.7 27.6 81.8 27.7 81.4 27.4 81.2 27.4	2 31.8	94	34.4	1959*			72	22.2	1977*
81.6 27.7 81.6 27.7 81.2 27.4 81.5 27.5	2 31.8	96	34.4	1959*		23.8	72	22.2	1973
81e4 27e4 81e4 27e4 81e2 27e3 81e5 27e3	2 31.8	95	33.3	1959*	1 1 7 -	23.6	10	21.1	1977*
81e4 27e4 81e2 27e3 81e5 27e5		92	33.3	1960*	74.4	23.6	72	22.2	1973*
81.5 27.5 81.5 27.5	31.2		, , ,		74.6	23.7	72	22.2	1949
81.1 27.3	2 31.2	46	34.4	1960	74.2	23.4	71	21.7	1966
81.1 27.3	4 31,3	98	36.7	1947	74.5	23.6	7.1	21.7	1966
2113	5 30.8	92	33,3	1947	74.7	23.7	7.1	21.7	1966
18 81.1 27.3 87.6	6 30.9	92	33.3	1960*	74.7	23.7	72	22.2	1945
81.9 27.7	7 31.5	96	34.4	1964*	75.1	23.9	73	22.8	1971*
81.5 27.5	91.4	63	33.9	1962*	74.5	23.6	69	20.6	1963
	31.6	76	34.4	1955*	74.5	23.6	72	22.2	1963
22 81.8 27.7 38.7	7 31.5	96	34.4	1955	74.8	23.8	72	22.2	1949#
23 80.9 27.2 87.9	9 31.1	92	33,3	1962*	74.0	23,3	70	21.1	1949
	0 31.1	95	35.0	1952	73.8	23,2	7.1	21.7	1974#
80.9 27.2	4 31.3	93	33.9	1962	73.5	23.1	70	21.1	1953*
80.7 27.1	4 30.8	*6	34.4	1962	74.1	23.4	7.1	21.7	1974#
81.1 27.3	1 31.2	16	32.8	1965*	74.1	23,4	10	21.1	1977
81.2 27.3	4 31.3	*6	34.4	1962	73.9	23,3	7.1	21.7	1976*
80.5 26.9	5 30.8	92	33,3	1966*	73.6	23.1	11	21.7	1975*
	1 31.2	95	35.0	1959	73.7	23.2	10	21.1	1945
80.3 26.8	3 30.7	96	34.4	1959	73.3	22.9	69	20.6	1974
	91.4	86	36.7	1947	74.6	23.7	68	20.0	1969

\*ALSO ON EARLIER YEARS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

11706

STATION

GUANTANAMO BAY, CUBA STATION NAME

1945-1977

YEARS

DAILY AVERAGE/EXTREME TEMPERATURES

NOVEMBER

MONTH

	MEAN TEMP	EMP		N	MAXIMUM LEMP	MP			2	MINIMUM TEMP	MP	
_	AVERAGE	IGE	AVERAGE	\GE	EXTREME	EME		AVERAG	3E	EXTREM	ME	
DAY	u.	o°.	L <sub>o</sub>	ပ္	u. °	၁့	7	ч°	၁့	<b>∀</b> °	၁ွ	DATE
-	80.7	27.1		31.1	92		1965*	73.5	3.	10	21.1	1976*
2	80.7	27.1	87.4	30.8	92		9	74.0	3.	10	21.1	1974*
3	80.5	26.9			92				3.	69	20.6	1976#
4	90.6	27.0		30.9	63	33.9	1947		23,1	10	21.1	1957*
2	80.8	27.1	8	31.2	63	33.9	1958	73.5	23,1	10	21.1	1974
9	80.2	26.8	7.		92	33.3	1947		2.	69	20.6	1956*
7	80.3	26.8		31.2	92		1957	72.5	2.		20.0	1969*
8	80.5	26.9	7.		92	3.	1952		22.8	68	20.0	1956
6	80.2	26.8	-	30.9	63		1960		2.	99		1969
10	80.0	26.7	7		16		1962*		22.5	49		1969
11	80.2	26.8	-		92	3	1958*		22.6	69	18.3	1969
12	80.0	26.7	87.5	30.8	92	33.3	1955	72.6	22.6	99	18.9	1964
13	80.1	26.7	-		92	10	1948#		22.6	67		1946
14	79.7	26.5			66	3	1948		22.4	99	18.9	1946
15	79.6	26.4			62	3	1948		2.	63		1946
16	79.7	26.5	7.	30.7	92		1958*		22.3	68		1946
17	79.8	26.6	7.	30.7	92	33,3	1953		22,4	68	20.0	1966
18	79.7	26.5	7.	30.7	16		1947		2.		21.1	1961
19	79.4	26.3	7.	30.7	93	33.9	1947		22.0	68	20.0	1969*
20	79.5	26.4	7.	30.7	16		4	71.7	2.	68	20.0	1969
21	79.6	26.4	7.	30.7	92	3.	9		2.	68		1969*
22	79.7	26.5	7.	30.8	92	33.3	1976		2.	99	20.0	1946
23	79.5	26.4	7.		90		1965*	72.0	22.2	6.9	20.0	1966*
24	79.2	26.2	9		90		1972*		2 .	67	19.4	1966
25	78.5	25.8	85.7	29.8	16	32.8	1948	71.3	21,8	67	19.4	1966
26	78.6	25.9	9	30.1	91	32.8	1953#		1.	69	18.3	1966*
27	78.3	25.7		29.9	16	32.8	1959		21.5	62	TO.	1949
28	78.5	25.8	-	30.1	06		1959*	70.8	21.6	40	17.8	1949
29	78.8	26.0	-	30.3	91	32.8	1954	71.2		40	17.8	1949
30	79.0	26,1	96.4	30.2	16	32.8	-	71.6	22,0	99	18.9	1950
31												
Monthly	100	34. 8	87 3	200					7 60			

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\*ALSO ON EARLIER YEARS

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NORTH CAROLINA

GUANTANAMO BAY, CUBA STATION NAME

11706 STATION

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1945-1977

YEARS

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DECEMBER

	MEAN TEMP	remp		Z	MAXIMUM TEMP	MP			~	MINIMUM TEMP	MP	
	AVERAGE		AVERAGE	GE	EXTREME	ME		AVERAG	36	EXTREM	ME	
DAY	9 F	o°.	9 °F	၁့	4 °	၁့	DATE	F°	၁့	<b>₽</b> °	ွ	DATE
-	78.2	25.7		29.9	90	32.02	1958*		-	67	19.4	1966*
2	78.2	25.7		29.8	91	32.8	1953	70.7	1.	99	18.9	1969*
3	77.7	25.4		4	63	33.9	1953		21.3	09	13.6	1945
4	77.8	25.4	85,3	29.6	16	32.8	1953	70.2	21.2	63		1945
5	77.3	25.2	85.1		89	31.7	1965		0	29	16.7	1959
9	77.6	25.3	85.2		89	31.7	1958*		21.1	65		1969
7	77.2	25.1	84.8	40	90	32.2	1947		20.9	79	17.8	1975
8	77.9	25.5	85.4	29.7	9.1		1953	70.4	-	69		1973
6	77.7	25.4	85.1	29.5	06		1964*	70.4	21.3	99		1957
10	77.9	25.5	85.1	29.5	89	-	1963*	70.8		99	18.9	1967
11	77.5	25.3	85.0		06	32.2	1953	70.0	21.1	99	18.9	1950
12	77.3	25.2		29.7	89	31.7	1964*	69.2	-91	62	16.7	1950
13	76.9	24.9	84.8		90	32.2	1953*	69.1		9	15.6	1973
14	77.2	25.1			06	32.2	1947	69.2	20.7	63		1973
15		25.0			88	31.1	1959*	69.2	15	63	17.2	1973
16	77.0	25.0		29.3	16	32,8	1947	4.69	-	63		1952
17	77.2	25.1		29.6	89	31.7	1959*	69.2	100	59		1952
18	77.1	25.1	84.8	29.3	89	31.7	1956*	69.5		62	16.7	1952
19	77.3	25.2	85.3	29.6	89	31.7	1973*	69.3	. 70.	63	17.2	1952
20	76.8	24.9	84.0		88	31.1	1947	9.69	50.9	63		1945
21	76.6	24.8	84.3	29.1	06	32.2	1953		-	09	15.6	1950
22	76.8	24.9	84.5	29.2	89		1957*		20.6	49	17.8	1975*
23	76.9	24.9	84.4		90	32.2	1957			10		1975
24	77.0	25.0	85.0	29.4	90	2.	1962		100	09	15.6	1975
25		24.8	84.5		90	100	1957	8	20.5	50	15.0	1975
26	76.7	24.8	84.5	29.5	06		1958		1	63		1975
27	76.6	24.8	84.2	-	88		1959	6	20.6	69	18.3	1952
28	76.4	24.7	84.0	28.9	88	31.1	1962		20.4	62		1975
59	76.5	24.7			06	32.2	1953		20.3	90	17.8	1975#
30	76.5	24.7		28.9	89	31.7	1947	0.69	100	62	16.7	1975
31	76.3	24.6		29.0	89	31.7	1953*	68.5	20.3	62	16.7	1975*
Monthly	11 2											

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\*ALSO ON EARLIER YEARS

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### **EXTREME VALUES**

MAXIMUM TEMPERATURE

GUANTANAMO BAY, CUBA

YEARS

WHOLE DEGREES FAHRENHEIT

MONTHS		95				66	63	95	66		97	98	86	97	44		100	97	96	47	96	44	26	66	26	92	66	93	66	9.5			
DEC.		88		06		85	68	86	63	89	06	89	06	90	68	89	88	06	68	06	68	88	6.3	89	98	88	88	90	89	88			
NOV.	16	06	66		68	89	16	6.6	42	9.1	92	06	92	63	92	63	06	16	65	16	6	06	91	16	8	87	89	06	26	90			
OCT.	16		86			9.1	06	95	06		96	46	66	96	98	46	63	46	95	76	63	92	16	06	91	06	68	92	90	96			
SEP.	26	68	98	96	92	06	92	63	16	9.5	9.6	95	44	96	46	96	96	95	66	98	76	96	16	63	92	88	06	66	63	98			1
AUG.	85	98		97	75	63	63	16	92	86	96	67	86	47	97	67	66	96	95	44	76	96	06	92	91	91	60	91	95	92			1
JUL.		93		66	96	9.1	91	34	92	100	46	96	86	44	96		100	9	96	96	96	6	25	92	92	92	8.9	91	26	63			
JUN.		16		96		68	26	92	16	66	96	98	98	96	9.8	9.5	96	95	46	95	96	96	80	9.1	91	06	06	91	9.1	00			1
MAY	06	16	68	95	88	69	88	06	06	56	6	76	5	96	6.6	65	20	36	26	63	16	62	00	89	16	68	99	6.9	92	89			
APR.		87	68	91	87	98	88	88	88	92	68	64	91	96	66	93	64	92	90	92	88	92	88	86	68	89	8.7	87	91	88			1
MAR.		87	90	92	88	67	8.8	67	98	16	89	68	06	88	92	92	16	06	26	90	16	89	89	85	88	87	83	60	88	88			
FEB.		89	86		85	8	83	85	86	60	88	88	88	87	92	92	9.1	90	90	89	87	89	68	85	87	85	80	89	87	85			
JAN.		98	87	90	68	48	84	88	85	16	88	56	80	68	06	06	68	68	87	90	98	88	88	85	87	8 5	82		67				
YEAR	45	46	47	48	65	20	51	52	53	54	55	56	57	56	99	00	61	62	63	50	65	99	67	68	69	70	7.1	72	73	74	MEAN	S. O.	-

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EXTREME VALUES

MAXIMUM TEMPERATURE

GUANTANAMO BAY, CUBA

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WHOLE DEGREES FAHRENHEIT

ALL	46	8	2.154
DEC.	9 69	8	1.609
NOV.	80	06	1.447
OCT.	92	66	92.6
SEP.	25	66	2.212
AUG.	96	96	2,463
JUL.	6 6	*	3.063
J.	6 80 - 80	96	2.661
MAY	683	06	2.408
APR.	92	C 20	2.585
MAR.	92	06	88.6 2.340
5	8 8	68	2.336
JAN.	5 4 9	06	2.475
YEAR	75	£	MEAN S. D.

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### **EXTREME VALUES**

MAXIMUM TEMPERATURE

45-77

GUANTANAMO BAY, CUBA

/BASED ON LESS THAN FULL MONTHS/

91	YEAR	JAN.		MAR.	APR.	MAY	JČN.	JU.	AUG.	SEP.	OCT.	NOV.	DEC.	MONTHS
91 93 96 91 MAX 28 30 30 0AYS 28 30 0AYS 29 30 0AYS 27 29 86 MAX 27 30 0AYS 30 0AYS 30 0AYS 40 40 40 40 40 40 40 40 40 40 40 40 40 4	45				87		16							MAX TEMP
91	47						2.0	30	30				301	MAX TEMP
89 91 86 MAX 30 DAYS 97 95 MAX 95 MAX 97 86 MAX 97 80 MAX 97 MAX 97 80 MAX 90 M	48		91									63		MAX TEMP
99 99 0AYS 90 0AYS 90 99 99 99 99 99 99 99 99 99 99 99 99	64						6.0				30		9 6	MAX TEMP
97 80 90 90 90 90 90 90 90 90 90 90 90 90 90	54										562			MAX TEMP
MEAN S. D.	09							106						MAX TEMP DAYS
MEAN S. D.														
MEAN S. D.														
MEAN S. D.														
MEAN S. D.														
MEAN S. D.								-						*
MEAN S. D.														
MEAN S. D.														
MEAN S. D.														
S. D.	MEAN													
	S. D.													

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**EXTREME VALUES** 

MINIMUM TEMPERATURE

CUANTANAMO BAY, CUBA

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45-77

YEARS

WHOLE DEGREES FAHRENHEIT

YEAR YEAR	JAN.	FB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	MONTHS
45					67				72	70			
46	62		49	69	69	69	72	72	70	20	63	65	62
44	99	62	99	89	68				72	7.1	68		
8	40		69	99	69	68		69	10	72		99	
54	61	99	61	67	70			7.1	73		62		
20	65	69	69	99	67	73	72	7.1	7.3		69	09	09
51	61	62	61	99	0/	72		72	75		70	67	19
25	69	63	99	67	69	20		13	7.1	72	69	29	20
53	63	69	99	69	70	72		74	7.1	70	7.1		
24	99	99	99	60	1	7.1		74	73		10		
52	62	69	99	99	68	72		2	13	71	80		
96	57	99	99	99	71	73		72	74	7.1	69		
57	67	67	69	70	13	7.3		74	75	7.1	10		69
500	09	57	6.9	69	73	73		74	74	72	10		
55	99	67	69	69	70	73		72	73	74	11		
09	19	99	99	70	72	72		14	7.1	74	70		
61	67	67	90	70	7.	74	73	72	73	72	63		
29	99	62	69	70	60	73	2	73	73	74	67		
63	61	99	99	67	67	69	74	75	7.5	69	68		
49	6.5	99	67	69	7.	74	1.	73	73	72	99		
65	19	65	67	67	70	72	74	74	73	71	69		
99	19	29	67	67	70	73	7.3	74	72	7.1	69		
29	99	99	65	49	67	7.1	73	72	72	7.1	00		
68	63	61	62	63	69	13	72	73	72	7.1	67		
69	62	09	19	7.1	69	7.1	72	72	74	68	49	69	09
70	29	69	62	99	99	73	13	74	14	72			
7.1	69	69	99	69	12	75	7.5	73	74	72			
72	69	61	49	99	71	72	7.1	73	71	17	71		
73	69	65	67	99	7.1	74	7.1	72	1.9	7.1			
74	65	99	67	65	99	7.1	73	70	72	69			
MEAN													
S. D.													
TOTAL ORG													

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#### **EXTREME VALUES**

MINIMUM TEMPERATURE

GUANTANAMO BAY, CUBA

45-77

MHOLE DEGREES FAHRENHEIT

MONTHS	66		2.323	11536
DEC.	59		3.051	930
NOV.	999		0	980
OCT.	17	0,	1.352	196
SEP.	72	11	1.660	990
AUG.	75	11	1.408	992
JUL.	75	22	1.110	
JUN.	69	14	1.762	900
MAY	70	69		1023
APR.	71	80 0	2.225	960
MAR.	69	**	2.112	66
FEB.	69	50	2.791	875
JAN.	69	50	2.604	992
YEAR	75		S. D.	TOTAL OBS.

0 0 0 0

#### **EXTREME VALUES**

MINIMUM TEMPERATURE

CUANTANAMO BAY, CUBA

45-77

/BASED ON LESS THAN FULL MONTHS/

ALL	TEMP	TEND	S	TEMP	TEMP		TEMP	TEMP	TEND							T
`Q	2 2	Z	DAY	2 >	Z	DAY	N N N	ZY	MIN							1
DEC.		99	30		69	30	9 6									
NOV.				600	;											1
OCT.					70	30		22								1
SEP.																1
AUG.		70	30													1
JUL.		70	30						30							
JUN.	700	72	28		71	27										1
MAY																
APR.	99															-
MAR.																
FEB.				69												-
JAN.																-
YEAR	6.5	4.7		84	64		53	S.	09					MEAN	S. D.	TOTAL ORG

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## PSYCHROMETRIC SUMMARY

JAN

73-77

GUANTANAMO BAY, CUBA

11706 STATION

	1	Dew Poir							1	-	80	38	134	190	264	273	189	88	22		20	e -	4 8 8 .	1239						Total	744.0	× × ×	
TOTAL	1	Wet Bulb Dew Poin						-	*	23	6	173	295	257	508	124	34	0	•	0 -	•			1239						H		-	
	-	_	7:	100	2	96	124	116	145	120	135	167	132	101	45	0	00	1		1			966	1239						≥ 93 F			
	TOTAL		7:	30	2	96	124	116	145	120	135	167	132	101	42	6	æ	-		1				1239				T	Temperatu	≥80 ₽	183.7	-	•
	1	131																					1						Hours with	≥73 F	467.8	. 30	
	100	. 28 29 - 30		+																+			+				-		Mean No. of Hours with Temperature	≥ 67 F	708.0 4	+	
	20 00	87 - 72 07 - 67				1																							*	32 F	7	4	
	20 00	72 23 - 74		+																+			-						-	20 F A			
ION (F)	(E) NO.	9 - 10 11 - 12 13 - 14 13 - 16 17 - 18 19 - 20 21 - 22 23 - 24		+	bi															-			-	•					+		6		3
F DEPRESS	C DEL RESS	81 . / .		1	•	1														1	^			2.					No. Obs.	123	1239		
WET BILLS TEMPERATURE DEPRESSION (F)	MERAION	10 1	•	4	•	•	2 . 2	4.		7.													-	0					σ×	.961	5.611	177 6	"
T RIIIR TE	21 000	- 12 13 -	u		•	6.9	~		.2		2.	1.								+			$\rightarrow$						-	=		t	
NA.		= -		_	_				7	1.7		.2	.2	7.	7.					Ť			1	4.211.3					×		75.1	Τ	
	1	2		-	_	_		_	_	_	2.7	1.0	9.		.2	7.	-:							10.					2×	87913	93078	04446	
		0		1			•	1000			3 4.4	105	-		2.	•								1.12				-					
	1	3.4		+	_	-	•	.2	. 3		2.	.8 6.5	3	-	-		2			1			2 4 4 3	0.522.021.1		-			-	14989	7031326		
	1	-		+		1					•	-	-	-	1:0	•	•			-			1	•					Σx²	40	70	E. 7	
-	Temp.	80	200	2		0	5	20	11	75	73	7.	69	67	69	63	61	29	52	25	35	64							Element (X)	Rel. Hum.	Dry Bulb		4
1.	•	100	200	148	000	148	82/	80/	18/	191	141	72/	10/	68/	199	64/	129	109	58/	100	52/	105	1	LOIAL					Eleme	Re.	Dry		***

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5707 MEANS AND STANDARD DEVIATIONS JAN 68

Temp.	-	1		,		-	-			THE BOLD IEM ENAIGHE DEFRESSION (F)		1		1	00	100	20,00	200	100	1	TOTAL			OIAL
EL	•	7	-	0	1	6	=	-12	-	15 . 16	-	18	20.	21 - 2	23	24 25	26 27	9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30	8	131	D.B./w.	3		Wet Bulb Dew P
60 /06						٠	_	,	•	-			-										0	
						•	_	1.3		2.	•	-					+				27		-	
					•	_		2.3													102		12	
				.2	-	0.4	4	.0.	•	*											150	150	0	
				1.0	3		~	0				-				-		-			145		S	
80/ 79			.5	2.5	4	7 3.1	-	5													154		4	
					~	1.4		*				-									119		L	25
		.2	2.4	4.2	2	7 1.1	-														132	132	_	108
		9.	4.5	3.8	~	.3	3	-				-			_	-	-	-			14.	-	-	198
_		1.3	6.3	5.6	•												_				131	_		269
10/ 69		1.2	4.5	_	.2	_	_	-				-				-	-	-			76	1	-	267
			1.8	••	_													-			33			220
69 /99				.2				-				-				-	-				9		9	110
							-																	36
62/ 61																								-
							+	+				+			1	-	+	+				1	+	
POTAL		3.6	11.2	20.4	3.621.220.419.017.012.4	17.	015		5.1	1:1		-	7									1240	0	
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												-				-	-						-	
							+	-				+	1		1	+	+	+	1			1	+	1
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																					42			
Element (X)		2x2			ZX X	1	×	+	×	1	ž	No. Obs.	-			-	-	- Number	of H	ours wi	Mean No. of Hours with Temperature	office	+	
Ref. Hum.		6280452	452		8716		70.3	-	1.136	9	-	040	+	10 F	-	≤ 32 F	-	≥ 67 F	AI	≥73 F	≥ 80 F	1	≥ 93 F	L
Dry Bulb		7503979	616		9623		77.6		5.289	6	-	1240	-				-	742.2		587.4	301.2	-		766.
Wet Bulb		6142	475		8718		70.3		3.206	9	-	040	-				0	5.259		8.0				
D Bein		5520695	367		R577	T	44.0	T	2 464	,	-		+	-	1			2 466		K		1		

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GUANTANAMO BAY, CUBA

ISERA-TOOS BYAN

73-77	YEARS
GUANTANAMO BAY, CUBA	STATION NAME

PSYCHROMETRIC SUMMARY

0 1.2 3.4 5.6 7.8 9.10 11.213.4415.16 17.18 19.20 21.22 32.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.23 23.24 4.6 4.1 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Temp.						1	WET	BULB TE	WPERAT	WET BULB TEMPERATURE DEPRESSION (F)	RESSION	(F)							TAL		TOTAL	
89	<b>E</b>	•		3 - 4		1		. 11 0	12 13 -	14 15 -	16 17 -	18 19	- 20 21	- 22 23	3 - 24 2	5 - 26 2		30	9	W.B. D	ry Bulb	Wet Bulb	Dew Poir
87	1						-		•	2	•	1		-		-			-	3	6		
85							•	-	-											35	32		
83   1.9   2.6   4.7   3.9   1.7   1.5   1						•		3	2 1.		3								-	40	104		
91						2.6	-	3	6		2		. 1						-	53	153		
79						~	-	2			2			-					7	41	1+1		
77				6.		~	-		•	9									-	30	130		
75		4	.2	1.7		4	_	•	•	2			-						1	51	151	15	
73			4.			~	-	•	~					_			_		1	32	132	138	-
1			0.			-	+-		-	-	-	-	-	-	-	1	1	-	-	1	170	228	43
69 -1 1-1 2-1 -8 -1			4.			_													-	00	-	242	17:
65 1	L	-	-			1	1		-	-	+	+	+	+	+	+	+	+	•			204	244
65 .1 6.018.220.619.215.813.2 4.2 1.4 .8 .1 1200 1200 1200 1200 1200 1200 1200 1						•									_					7	-	142	266
6.9 5.9 5.9 5.9 5.9 5.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0				-		L		-	-	-	-	-	-	-		1	1	+	-	-	-	88	196
51 52 53 54 55 56 64 64 64 64 64 64 64 64 64 6	-																			•	•	28	129
57 51 49 -1 6-018-220-819-2 5-813-2 4-2 1-4 -8 -1  1200 1200 1200 1200 1200 1200 1200 1							-	-	-		-	-	-	1	-	-	+	1		+		6	73
55 49 -1 6-018-220-819-215-813-2 4-2 1-4 -8 -1  1200 1200 1200 1200 1200 1200 1200 1																							29
1200 1200 1200 1200 1200 1200 1200 1200	0								1														20
Hun. 6142134 84672 70.6 11.825 1200  Macri No. 25x2  Macri No. 25x3  Macri No. 25x3  Macri No. 25x4  Macri No.	1						1	-	+	+	-	+	+	+	1	+	+	-	+	+	Ī		40
1200   12	4																						-
2x²     2x     X     X     No. Obs.       6142134     84672     70.6     11.825     1200     537     267     290.4       7341463     93669     78.1     4.993     1200     648.5     228.6     290.4       6022982     84934     70.8     3.096     1200     648.5     228.6       5443221     80699     67.2     3.684     1200     448.8     88.8	JYAL	-	0.0	8.2	80.8	19.5	2	3.3					-						12	-	200	1200	1200
\$\frac{\infty}{2\times} \frac{\infty}{2\times} \frac{\infty}{2\tinfty} \frac{\infty}{2\tinfty} \frac{\infty}{2\tim								-															
Σχ²									+		+	+	+	+	+			+	+	+	T		
Σχ²     Σχ     X     No. Ob.       Δ142134     84672     70.6     11.825     1200     ≤0 f     ≤2 f     ≥73 f     ≥80 f     ≥80 f       7341463     93669     78.1     4.993     1200     ≤0 f     ≤28.6     290.4       6022982     84934     70.8     3.096     1200     648.6     228.6       5443221     80699     67.2     3.084     1200     448.8     88.8	Service of the servic								-			-	-										
Σχ²       Σχ       X       Λ°x       No. Obs.       Mean No. of Hours with Temperature         6142134       84672       70.6       11.825       1200       ≤0F       ≥73 F       ≥80 F       ≥93 F         7341463       93669       78.1       4.993       1200       719.4       609.6       290.4         6022982       84934       70.8       3.096       1200       648.6       226.6         544321       80699       67.2       3.684       1200       448.8       85.8																							
Σχ²     Σχ     X     σx     No. Obs.     Absort No. of Hours with Tamperoture       6142134     84672     70.6     11.825     1200     ≤0F     ≥73 F     ≥80 F     ≥93 F       7341463     93669     78.1     4.993     1200     719.4     609.6     290.4       6022982     84934     70.8     3.096     1200     648.6     226.6       5443221     80699     67.2     3.684     1200     448.8     85.8																							
Σχ²     Σχ²     No. Obs.     Ascar No. of Hours with Temperature       6142134     84672     70.6     11.825     1200     ≤0F     ≥73 F     ≥80 F     ≥93 F       7341463     93669     78.1     4.993     1200     ≤0F     ≥73 F     ≥80 F     ≥90.4       6022982     84934     70.8     3.096     1200     648.6     226.6       5443221     80699     67.2     3.684     1200     448.8     85.8									-	-	-	-	-							+			
\$\infty\$\frac{2}{3}\$         \$\infty\$\frac{2}{2}\$         \$\infty\$         \$\infty\$\frac{2}{2}\$         \$\infty\$         \$\infty\$ <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>+</td> <td>+</td> <td>+</td> <td></td> <td></td> <td>+</td> <td>+</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>							9		-	-		+	+	+			+	+	-				
6142134         84672         70.6         11.825         1200         sor	Element (X)		x2			ZX		×	-	×	ž	B	+	1			Mean N	of Hou	rs with Tem	peratur	1.		
7341463 93669 78.1 4.993 1200 712.4 609.6 290.4 6022982 84934 70.8 3.096 1200 648.6 228.6 5443221 80699 67.2 3.684 1200 448.8 88.8	Ref. Hum.		5142	134		846		9.0/		828	-	200		10 F	= 32	-	₹ 79 €	273	2	88	1 83	-	Total
6022982 84934 70.8 3.096 1200 648.5 228.6 5443221 80699 67.2 3.684 1200 448.8 88.8	Dry Bulb		1341	463		9366		78.1		666	-	200				-	19.4		-	4.0			20.0
5443221 80699 67.2 3.684 1200 448.8 88.8	Wet Bulb		5022	985		8492		8.07		960	-	200				•	48.5		•				20.0
	Dew Point		1443	221		8069		57.2		984	-	200	-			-	48.8						20.0

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GUANTANAMU BAY, CUBA

1706 STATION

ISEAS- FOOT - EASE!

PAGE 1 HOURS (LS.T.)

Dew Point 1240 223 358 358 257 148 Wet Bulb 276 276 262 139 1240 TOTAL 53 Dry Bulb 200 36 1240 TOTAL D.B./W.B. 188 66 136 171 1240 × 31 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 WET BULB TEMPERATURE DEPRESSION (F) 20 1.0 \* 9.319.022.919.813.910.2 3.1 . 2.6 2.8 2.3 7 - 8 7.3 2.4 4.3 1.6 2.6 2.0 3.4 1.0 3.5 - 2 1.0 -707 0 60/ 59 OTAL 63 74/ 73 5 68/ 67 Temp. 78/ 199 10/ 191 188 80/08 198

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PSYCHROMETRIC SUMMA JAN 68

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Total

≥ 93 F

379.2

727.8 451.2

Mean No. of Hours with Temperatur

=73 F

≥ 67 F

≥ 32 F

\$ 0 F

1240 1240 1240 1240

4.393

73.0

91343 98725 90520

Rel. Hum. Dry Bulb

Element (X)

Wet Bulb

Dew Point

0

3.339

86884

6101582

744.0

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

73-77

GUANTANAMO BAY, CUBA

Temp							WET	<b>BULB TE</b>	MPERA	WET BULB TEMPERATURE DEPRESSION (F)	PRESSIC	(F) NC								TOTAL		TOTAL	
<b>E</b>	0	. 2	3.4	5.6	7 . 8	9 - 10		12 13 -	14 15	11 - 12 13 - 14 15 - 16 17 - 18 19 - 20	. 18	9 - 20 2	21 - 22 23	23 - 2	- 24 25	25 - 26 27	. 28 29	- 30	231	D.B./W.B.	Dry Bulb	-	Dew Point
-						-									-					1	1		
						.2	•	7	3											14	14		
68 /06				-	•	_	_		رم د											34	34		
					00	3.3	6	· ·	1											102	102		
				.2	4	2 6.1	2.		-4											159			
			.2	2.8	3	w	•	50												149	149	2	
			8.	ô	3	-	•	2							-					148			
80/ 79		7	3.6	7.2	-															155	155	4	
	+-	200	7.7			_	-	-	-		-	-			-		+			194	L	-	29
76/ 75	2	0	6.8	2.7											-					181	181		116
	1		2.7	4.					-						-	-				57	57	1	313
72/ 71	-		-															7		50	20	193	410
-	7																			-	-	50	
1 =	4		6.233 994. 718.114	7.7	~	- 1	8	7.1		-	-				-	+	+				1300		1300
2	-					•	_	3		-1					+	-	1			1200	+	1200	-
								-	-						-								
																							16
								-	+			T			+								
								-	(		-				-	-							
								-	-		+				+	-	+						
		T						1			+				+	+	1						
																						7	
																		5				2	
Element (X)	2	2x2			ZX		×		σ×	Z	No. Obs.						Mean No	o. of Hou	urs wit	Mean No. of Hours with Temperature	ature		
Rel. Hum.	9	1881	6851039		89927		5.47		9.664		1200	_	≥ 0 F		≥ 32	4	≥ 67 F		≥73 F	≥ 80 F	≥ 93 F	_	Total
Dry Bulb		1871	959		97040		6.08		4.506		1200	_					720.0		50	403.8	8	9.	720.0
Wet Bulb	9	999	446		80468		74.5		2.408		1200	_					20.0	_		16.	20		720.0
Dew Point	٥	6205880	880		86250		71.9		2.357		1200			H			710.4			2.4	•		720.0
																			ı				

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11706 STATION

5 PSYCHROMETRIC SUMMA JAN 68

11706 STATION	50	STATION NAMES	2	SATS	TION NAME	4			1	13-61			YEARS			-	MONTH	ити
																	PAGE 1	(1.5.7.)
Temp.						3	ET BULB	TEMPERA	TURE DI	WET BULB TEMPERATURE DEPRESSION (F)	9				TOTAL		TOTAL	
(F)	0	1.2	3 - 4	5.6	7 - 8 9	9 - 10 11	1 - 12 13	3 - 14 15 - 16 17	- 16 17	. 18 19 - 20	21 - 22	23 - 24 25 - 3	26 27 - 28 29	9 - 30 = 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
94/ 93					-(-		1:1	N. W.	-						243			
-				-	-14	50		1-	4 4	7.					102	102		
86/85			-	2	_	-	0		. 2						4	1		
			_	_		1.4									128	1		
		-	_	-	4:4	9.				-					177	1	99	3 6
	:	* 00	00.0	2.7	:						4			-	130	130	340	106
72/ 73		œ -	0	4.	1.										29		357	391
															•		45	297
L _												-			7		-	28
74	•	2.11	2.116.521.720.61	1.72	0.61	7.514	0.4	5.2 1	m	.2						1240		1240
															1240		1240	
																	1	
												, y						
														9				
Element (X)		2x2		1	×			ď,	L	No. Obs.			Mean No.	S. of Hours	of Hours with Temperature	ature		
Rel. Hum.		6286140	140	80	87396			001.0		1240	40 F	≤ 32 F	≥ 67 F	≥73 F	≥80 F	≥ 93 F	H	Total
Dry Bulb		8416	296	2	1990			1.721		1240			744.0	143.4			1.8	0.44
Wet Bulb		9049	883		2507			. 483		1240			143.4	201	18.0	0	-	0.0
Dew Point		691760	165	0	11 10	11.4		0000		1240			7.62/	335.8		*		0.44

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NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

	Dew Poin								+		125		-	1	124	1260	-								Total	W. AMA
TOTAL	Wet Bulb							12	63	229	318	332	220	60	-		1240							-	4	
	<b>Dry Bulb</b>	7	36	104	141	144	140	127	161	163	164	20	2	-		1260								- 1	293 F	
TOTAL	D.B./W.B.		95	104	141	144	140	127	161	163	164	20	~ .	1			1240							of Hours with Temperature	≥80 F	-
	z 31																							urs with	273 F	-
	. 30		T		T				T												1			울  *	_	_
	- 28 29		+		+	_	-		+		-		-	+		-	-	-		-	+	-		Mean No.	267 F	-
	27		1																				:	¥ e	97	
	25 - 26		1																					1	+	
	24 25		+		+		-		-	-	-	_		+		-		-	-	+	+	-	-		≥ 32 F	
	23 -																							1	+	_
	- 22		T																						10 F	
E	10	_	+	_	+		-	_	-	_	-			+			-	_			+		-	1	1	_
Z	19 - 2																								0	٥
PRESS	- 18		2 0											1		10								No. Obs.	1240	1
RE DE	6 17		1		1	_	-		-		-			+			-			-		-		ž		
WET BULB TEMPERATURE DEPRESSION (F)	15.			0												2.1							+	1	2	,
TEMPL	11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24	-	.0		6	4	4.									4							,	×	1.273	
BULB	12	-	91	7	-				-		-	_		+	_	1 2	-		-	-	-	-	-	+	- 4	1
WET	=	-	•	3.7	2	2.5	9.	.5								3							t	×.	4:00	
	2		0	1.8	4.0	4.	3.4		0							6.2								i	2 6	
1	8		+	7	2	2			00	~	2			+		916				-		-	$\dashv$	4	0 4	5
	-		1	•		4	*	4.4	3							00		-						X	88569	0
	3.6				-	-		3.5			3.5					1.0									-	-
	-		+	_			-	•	80	_	0	4.	7.	+		72				1			+	-		
	2		-	_	-		L	_	~	S	9	-		1		6.117.720.11				-		-		1	505	900
	- 2								.2	1.2	2.0	2.0	-	-		6.1							2.2	XX	8344004	200
	-																									
ď		500	16	68	87	85	83	81	19	11	75	73	71	62		63							1	(X)	E E	-
Temp.		196	150	106	181	198	841	32/	100	18/	191	141	72/	2	199	64/ 07AL								Element (X)	Rel. Hum.	200

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GUANTANAMO BAY, CUBA

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73-77

GUANTANAMO BAY, CUBA

55 PSYCHROMETRIC SUMMA JAN 68

	Dew Po									9	13	34	300	ŏ	80	m	1200					Total	-
TOTAL	Wet Bulb Dew Po							20	81	187	293	351	200	2	-			1200				L	1
	Dry Bulb	17	22	92	97	127	131	128	139	201	1.98	54					1200				2	≥ 93 F	1
TOTAL	D.B./W.B.	"	23	92	67	127	131	128	139	201	198	45						1200		ì	Mean No. of Hours with Temperature	≥ 80 F	
	≥31																				ours with	273 F	6
	29 - 30																				40. of H		
	- 28																				Mean	≥ 67 F	
	25 - 26 27																					≥ 32 F	1
	23 - 24 25		ľ																			-	1
	21 - 22 23													•								SOF	
(F)	19 - 20		•																			0	1
WEI BULB TEMPERATURE DEPRESSION (F)	11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21																				No. Obs.	1200	-
EKATUKE	15 - 16	7.				-											1.4				-	4	1
B IEMPI	13 - 14	2	*	1.2	1.4	1.2	-:	-	1.								4.7				ě	2.484	
WEI BU	11 - 12		.5	2.3	2.2	2.0	1.3	6.	.2								4.6				×	74.2	Γ
	01 - 6			3.0	3.0	4.4	2.1	1.4	1.6	.3	7						16.2				-	1	t
	7 - 8			4.	80	2.5		2.4	1.4	5.6	1.0						30				×	89023	1100
	5.6					4.		4.2	3.9	3.4	1.2		•				6.0						-
	3-4						0.	1.6	4.0	8.1	7.5		•				3.1					119	
	1.2								4.	2.5	6.7		:				512.123.116.015				EX2	6791119	2000
	0									.2	-	.2					.5						
np.	9	66	6	89	87	85	83	81	19	11	75	13	69	63	69	63	59				1 (X)	Ref. Hum.	1
Temp.	0	196	92/	106	188	198	84/	82/	80/	18/	191	14/	101	189	199	64/	60/ 07A				Element (X)	Ref.	

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11706 STATION

### PSYCHROMETRIC SUMMARY

73-77

GUANTANAMO BAY, CUBA

	Wet Bulb Dew Point						1	1	26	156	359	387	218	0	13	1239									Total	744.0	44.
TOTAL	Wet Bulb					1	*	67	174	345	380	226	40	2	1		1239									7	-
	Dry Bulb	-	42	66	112	135	171	162	181	213	66	11	-		1	1239									≥ 93 F		
TOTAL	D.B./W.B.	4	42	66	112	135	171	162	181	213	66	1.1	1		1		1239							Mean No. of Hours with Temperature	≥80 F	384.9	
	≥31																							ours wit	≥73 F	133.2	2 8 8
	29 - 30																							9 . of H	_		-
	. 28														1					1				Wean N	₹ 67 F	144.0	744.0
	. 26 27														+				+	+	+					-	-
	- 24 25 - 26														+				+	+					≤ 32 F		
															1												
	21 - 2																								0 1		
ION (F)	19 - 20																								6	6	
WET BULB TEMPERATURE DEPRESSION (F)	- 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23																							No. Obs.	1239	1239	
TURE D	. 16 1		~	-											1	~		1									
<b>EMPER</b>	- 14 15		2	~	2	~									+	6			+		1			×	0.620	576	3 414
BULB T	12 13	.2		3	2		.2	_							+	_			+		+						T
WET	10 11 .		-	6 2.		3		~							1	2 6.				-	1			×	77.1	80.2	76.6
	9.1			4.	4	2.	1.	•																			T
	7 - 8		•	•	2.4	5.4	4.9	2.1		-						4.0								×	95475	99419	1997
1	5.6				.2	1.9	6.1	5.3	3.6	2.3	.3	7.				9.816.415.											
	3.4				-:	~	۴.	4.7	*	•.	0.	9.			1	0			T						1.	45	2.5
	- 2						1 1		0	_	.6 2	•	7.		1	3.827.01				+				$\Sigma_{X^2}$	4961	8003445	487612K
	-							1.	-	.2 5.	4	1.			+	.613			+	+	+			Σ,	1	8	4
	٥	16	6	1	5	3			11	7.5			69	19	0	60			-	+				(X)	ė	9	
Temp.	<b>E</b>		1	-						-	,					OTAL O								Element (X)	Rel. Hum.	Dry Bulb	
		126	96	88	8	84/	82	80	78	16,	74	72/	70/	189	0	65								E	~	-	1

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	Dew Poir								50	64	146	297	303	215	129	40	9	•	7000	1500								Total	720.0	20.0	20.0
TOTAL	Wet Bulb Dew Poin		1				8	10	88	188	293	330	189	72	20	~				1200									-	•	
	Dry Bulb W	2	30	57	120	141	127	120	126	173	182	46	50	7	-				000	1500								≥ 93 F			
TOTAL	D.B./W.B. D	2	200	21	120	141	127	120	126	173	182	76	50	1	-				•	1200				1			Mean No. of Hours with Temperature	≥80 F	325.8	3.0	
			+			-	_	-	_	-						-	-		+	-		+	+	+			s with 1				-
	30 = 31		+		-		_	-		-			-		-	_	-		+			+	+	+	-		of Hour	≥73 F	8000	355	1
	8 29 - 30							-		-									-			-	+	1			n No.	≥ 67 F			۰
	27 - 28																										Med	9 1	71.5	106	VOVY
	25 - 26																		1									32 F			-
	3 - 24		1																			T						VI			
	- 22 2		1								_								1			-	+					≥ 0 F			
(F)	20 21	_	-	-	.1			-		-		-					-		-	7.		+	+	+			H				1
SSION	. 61 8	_	-	•	•			-		-		-				_	-		+	•		+		+	-		No. Obs.	1200	1200	500	
WET BULB TEMPERATURE DEPRESSION (F)	17 - 1													-		_			1			-	1	1			Š	1	-	-	1
RATUR	15 - 16	• 2	2.	•	.2	•													1	•							H	11	9	54	1
TEMPE	3 - 14	1	•		1.1	9.	-												-	3.6							ďx	2.017	5.208	2.8	N. W. W.
ET BULE	11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27		6.	5.0	. 4	2.7	7	.2	-	:										*.											I
*	9 - 10 11	-	-	1.5 2	-	-		1.5	4	+			_	-						1.0		+	1	+				14.6	78.9	72.5	100
	8		$\neg$	~	0	3	00	-		0	2	-				-			-	-		+		+	-			81	25	28	
	7.	_	•	•	2	~	_	+	7	+-		L	_	_					-			-	4	-			ZX.	894	94652	870	1
	5.6					•	2.7	3.6	-	3	2.8	-								2											1
	3.4						~				5.8									2.8								1241	986	332	S.A.A.
	1.2							-		2.2	3	3.2	4		-					2.922.818.913.0							$\Sigma x^2$	6845547	1498	6321332	
	0										4	-	_						-	•			1								
		16	68	81	85	83	81	19	11	7.5	73	71	69	10	65	63		65				1					(X)	um.	olb	ale	+
Temp	(F)			188		-	82/	-	18/		141	-	-	-	_	-		109	3	UTAL							Element (X)	Rel. Hum.	Dry Bulb	Wet Bulb	

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IOIAL	Wet Bulb Dew Point						-	28 1		168 54			-	142 203	1	1 4		9	n n	1	9	+				Total	-
0	Dry Bulb Wet	1	14	62	16	102	155	123					-	34	1	. ^	•			1240	1240				- 1	293 F	
TOTAL	D.B./W.B.	1	14	62	97	102	155	123	61	158	161	135	16	34	9		•			-	1240				h Temperatu	≥80 F	2
	30 = 31																								Mean No. of Hours with Temperature	≥73 F	3000
	. 28 29 .														+							+			Mean No.		0.00
	24 25 - 26 27																									≤ 32 F	
	21 . 22 23 .																									10F	
EL RESSION (1)	9 - 10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24				.1		• 1													.2					No. Obs.	1240	200
WEI BULB IEMPERATURE DEPRESSION (F)	14 15 - 16 17	• 1	2	.9 .2	.7 .1	•	.7 .2	2							1	_				9. 2						62/	2000
WEI BULD IE	11 - 12 13 -		. 9.	1.1	_	1.6	1.4	•	.2						+		-			7.7 3.2		+			-	.21	5.6
	-			_		-		-	8.		.2									13.6							_
	-6 7-8				.2 1.9	2.	1 3	.8	.8 2.	.3 1.		.5 .2	0.	4.	+		-			.516.9		+			χχ	93223	
	3 - 4 5					.2	.6	00	0	3.9 3	5.1 2		0.4	1:1	•	•				15.817						1271	
	1.2							.3	.2 .6	3.	.3 4.3	-	-	2 1.0						.116.422.8		+			Σx²	120921	
d	0	89	87	85	83	81	42	11				0	-	n :	60	20.	57		53	-		+			t (X)	lea.	-
Len	(F)	106	88/	198	148	82/	108	18/	191	14/	12/	101	189	100	100	100	185	195	54/	DTAL					Element (X)	Rel. Hum.	Al. B. II

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Temp.	1	- 1	- 1	-		-	WEI BOLD IEMPERATURE DEPRESSION (F)	DIEMPE	Chiche			1		- 1	1	- 1		TOTAL		-	
3	•	1.2	3.4	5.6	7.8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	10 11 - 12 13 - 14 15 - 16 17 - 18 19 - 20 21	1 - 22 23	13 - 24 25	25 - 26 27	. 1	28 29 - 30	131	D.B./W.B	Dry Bulb	Wet Bulb	Dew Point
56 /96						-			0.									~	7		
-						0	•	0	0	0								15	15		
-						7.	.3	.2	7.	0.	0							104	104		
-				0	7.	8		0.	.2	-	0.							614	419		
-				0.	.3	1.9	2.3	1.	.2	0.	0							816	-		
			0	7	1.9	3.5	2.1	0	.2	-	0							1282			
-						3.4	2.0	-	.2	0	0		T					1596	-	L	
82/ 81		0	10	5.8	3.6	2.2	1.5		-	0								1630	1630	*	~
	0.	2.	2.0			1.8	. 7	2.	0.	0								1785	-	6	1
11 11	0	8		3.9	2.6	1.0		-		0								1867		_	198
	-	7	5.2			9.		0.										1832	-	2522	-
	-	0	3.1	2.2														1328	1328	_	-
	+	5.	2.7			1.	0											881	+-	+	+
69 /6	0	6	1.9		7.	0												568		-	-
-	0.	*		.3	-	0.			T									313	313	+	2030
66/ 65	•	.2	6	-:	0.	0.												107			
64/ 63		-:	7.		0.													36	36	1	+
62/ 61		-:	0	0	•													19	19		
66 /09		0.		•														•	9	04	
-																				91	
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/ 53																				2	20
2																					22
64 /																					•
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DTAL	*	8.42	1.42	21.420.517.9	7.91	5.710	0.5	3.8	1:1		-								14606		14606
																		9095		14606	
							,														
Element (X)		$\Sigma_{X^2}$			Z×	Н	×	σ×	Ц	No. Obs.	-				Mean	No. of F	ours wi	Mean No. of Hours with Temperature	store		
Rel. Hum.	7	1951721	211	106	4131		72.9 1	1.670		14606	9	≥ 0 F	VI	≤ 32 F	≥ 67 F		73 F	¥ 08 ≥	≥ 93 F		Total
Dry Bulb	6	9141127	277	115	1152569		18.9	5.620		14606	9			8	8659.4	4760	3.50	1603.54015.5	1 1	10.2 8	8760.0
Wet Bulb	1	76213503	503	105	1053563		72.1	3.860		14606	•				975.84	7975.84448.9	6.8	108.	1 1	$\vdash$	8760.0
Daw Daint	9	6987969	000		200	t	4	2	L					•							4

GUANTANAMU BAY, CUBA

# MEANS AND STANDARD DEVIATIONS

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DRY-BULB TEMPERATURES DEG F FROM HOURLY DBSERVATIONS

STATION		COANTANA	STA	ATION NAME						YEARS			1	
HRS.(L.S.T.)	0	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
10	MEAN S. D. TOTAL OBS	70.8 2.549	2.722		74:4	76.7	17.3	78.3 2.011	78.0 2.355	1.775	1.891	2.190	71.2 2.937 2.937	75.1 3.502 1826
8	S. D. TOTAL OBS	2.573	2.658	71.5	72.5	2.355	75.8 1.832 150	76.5 2.059	76.5	1.667	75.5	73.3	69.6 3.022 155	73.4 3.557 1826
01	MEAN S. D. TOTAL OBS	2.532	68.8 2.736	71.3	73.3	75.6 2.291 155	1.779	1.709	2.439	76.5	2.050	73.6	2.992	73.8 4.040
10	MEAN S. D. TOTAL OBS	3.003	78.7 2.830	82.1 2.715 155	82.8 2.711 150	83.4 2.786 155	85.2 2.890 150	2.290	3.230	2.745	83.9	82.9	2.934	83.0 4.048
2	MEAN S. D. TOTAL OBS	82.3 2.826 155	82.3 2.520 141	2.046	83.8	2.838	2.892	2.073	2.487	2.999	3.361	2.687	82.9 2.938 155	85.2 3.415 1826
2	S. D. TOTAL OBS	3.088	2.455	82.6 2.114 155	3.175	83.2 2.652 155	2.884	86.1 2.452 155	2.781	3.174	34.0	2.924	81.4	3.329
1.9	S. D. TOTAL OBS	2.265	76.9	2.095	78.7 2.522 150	80.3	81.6 2.364 150	1.967	2.467	2.442	2.456	2.453	77.0	3.214
2	S. D. TOTAL OBS	73.9	74.3	2.034	76.8 2.658 150	78.6 2.436	2.166	1.982	2.177	2.122	78.6	2.394	73.7 3.123	3.387
ALL	S. D.	5.611	5.498	5.290	4.993	4.393	4.50	4.721	5.010	4.938	4.577	9.208	5.780	5.620

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# MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

STATION	_	CONTANAMO	40	STATION NAME			13-11			YEARS				
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
10	MEAN S. D. TOTAL OBS	2.861	66.8 2.977 141	68.6 2.468	2.503	71.8	1.769	72.9	1.809	73.0	1.705	71.0	3.094	3.434
4	MEAN S. D. TOTAL OBS	2.762	65.8 2.884 141	67.5 2.402 155	2.431	71.0	72.4	72.1	72.3	72.4	72.6	70.2	3.025	3.495
04	MEAN S. D. TOTAL OBS	2.641	65.4 3.027 141	67.6 2.388 155	68.8 2.523 150	71:4	1.405	1.371	72.8	72.6	1.820	70.4	66.8 2.935 155	70.0
2	MEAN S. D. TOTAL OBS	69.3 2.359	2.793	71.4 2.407 155	71.8	73.8	76.0	76.1	76.0	75.8 2.498 150	1.892	1.997	2.863	3.444
2	S. D. TOTAL OBS	70.9	71.0 3.092 141	73.0 2.306 155	73.1 2.592 150	74.9	1.910	1.987	1.930	2.481	76.8	75.1 2.537 150	3.304	3.365
2	MEAN S. D. TOTAL OBS	70.8	3.294	73.0	73.0	74.6	76.1	76.4	76.4 2.132	76.4 2.278 150	76.1	74.7	3.310	3.21
13	MEAN S. D. TOTAL OBS	2.885	69.6 3.334	71.4 2.375 155	71.5	73.6	74.9	75.5	75.3 2.123 155	2.407	1.790	73.0	3.481	72.9
22	MEAN S. D. TOTAL OBS	2.987	68.2 3.248 141	2.735	70.4 2.851 150	72.9	74.0	74.0	73.8	74.0 2.418	1.737	2.113	3.311	3.44
ALL	S. D. TOTAL OBS	3.466	3.712	3.206	3.096	73.0	74.5 2.408	74.6	74.6	2.807	2.415	72.5	3.794	3.861

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## MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 6

11706 STATION	1	GUANTANAMO	BAY,	BAY, CUBA STATION NAME			73-77	11		YEARS	-		1	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
75	MEAN S. D. TOTAL OBS	3.549	3.652	00	3.252	0 m	71.0	2.082	2.305	3.092	71.6	2.579	3.584	3.979
4	S. D. TOTAL OBS	3.415	3.479	65.4 2.915 155	3.108	3.107	1.929	70-1	2.104	2.975	71.3	2.667	65.6 3.342 155	3.949
6	MEAN S. D. TOTAL OBS	63.5 3.133	3.525	2.747	3.106	9.09	1.748	10.06	1.975	70.8 2.821	71.3	68.9 2.518	65.5 3.272 155	3.940
9	S. D. TOTAL OBS	3.228	3.672	3.182	3.936	3.563	72.3	71.4	71.6	71.6	2.507	2.709	86.9 3.727 155	4.270
2	S. D. TOTAL OBS	3.936	65.5	67.9 3.432 155	3.880	70.8 3.260	73.0 2.328 150	72.6 2.725	72.7	3.522	73.0	3.645	67.5 4.811	10.0
91	S. D. TOTAL OBS	3.899	5.048	3.153	3.647	3.056	2.577	72.4	72.3	72.8 3.175	72.9	3.120	67.5	10.2
13	S. D. TOTAL OBS	65.2 4.066 155	65.9	67.9 3.509	3.780	3.097	72.1 2.453	72.2 2.432 155	72.0	72.1 3.332 150	72.3	3.211	67.3 4.565	4.265
22	MEAN S. D. TOTAL OBS	3.943	65.0 4.148	3.734	3.822	3.524	71.7	71.1	2.730	71.6	2.121	2.777	3.983	4.237
ALL	S. D. TOTAL OBS	3.735	4.227	3.406	3.685	3.339	71.9	71.4	71.4 2.686	3.371	2.450	2.996	96.6 4.100	4.259

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

STATION

STATION NAME

73-77

MONTH ZAT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	OBS.	155	155	154	155	155	155	155	155			1239
MEAN	HUMIDITY	6.67	82.5	13.7	64.5	57.4	60.2	67.4	72.8			71.0
	%06		5.2	5.2							195	1:3
	%08	50.3	70.3	78.6	1.9	•	1.3	4.5	14.8		19.16	27.8
ATER THAN	20%	€.06	96.1	95.5	25.2	4.5	6.1	41.9	66.5			53.7
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	100.0	100.0	100.0	67.1	32.3	45.8	76.1	95.5			77.1
Y OF RELATIVE	20%	100.0	100.0	100.0	94.8	84.5	91.0	4.66	4.66		a .	96.1
GE FREQUENC	40%	100.0	100.0	100.0	100.0	98.7	100.0	100.0	100.0		197	99.8
PERCENTA	30%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			100.0
	20%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		F	100.0
	%01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		1000	100.0
HOURS	(L.S.T.)	10	•0	10	10	13	16	19	22			ALS
MONTH		JAN										TOTALS

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

STATION NAME

STATION

73-77

MONTH

FEB

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NOOF	OBS.	141	141	141	141	141	141	141	141		1128
MEAN	HUMIDITY	78.5	61,3	83.6	62.5	57.4	61.2	69.3	73.2		70.9
	%06	1:4	2.8	7.8					6.		1.6
	80%	0.44	010	76.6	.,		2.1	4.0	19.1		26.2
ATER THAN	20%	87.2	92.9	97.9	9.2	2.8	10.6	52.5	67.4		42.6
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	0*001	100.0	100.0	9*65	37.6	9065	82.3	0.86		79.3
OF RELATIVE	20%	0.001	100.0	100.0	97.2	85.1	86.5	97.9	100.0		95.8
GE FREQUENCY	40%	100.0	100.0	100.0	100.0	97.2	95.7	100.0	100.0	5	99.1
PERCENTA	30%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100,001
	20%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100-0
	%01	100.0	100.0	100.0	0.001	100.0	100.0	100.0	100.0	,	100.0
HOURS	(L.S.T.)	10	90	10	10	13	16	19	22		ALS
MONTE	TINOW.	FEB					7				TOTALS

#### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

STATION

13-17

MONTH MAR

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

40%     50%     60%       100.0     100.0     99.4       100.0     100.0     100.0       100.0     92.3     41.3       98.7     88.4     43.2       100.0     97.4     66.5       100.0     97.4     83.2	100.0 100.0 100.0		100.0 100.0 100.0 100.0 100.0
100.0 1 100.0 1 92.3 97.4	0:000	2 2 2 2 2	
100.0 1 100.0 1 92.3 88.4 97.4	0.00	9 9 9 9	State State State State State
100.0 1 92.3 88.4 97.4	0 0	001 00	
92.3		100	
97.4		100	
97.4			5.191
97.4	0	100.0	The Carlot of the State of the
	0	100.0	100.0 100
100.0 99.4 91.6	0	100.	100.0 100.0
99.8 96.9 78.2		100.	100.0 100.0

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### RELATIVE HUMIDITY

11706 GUANTANAMO BAY, CUBA

STATION NAME

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13-11

APR

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	OBS.	150	150	150	150	150	150	150	150		1800
MEAN	HUMIDITY	4.97	81.0	79.7	58.5	0.00	0.50	70.5	72.9		70.6
	%06	2.0	5.3	3,3	:3	1;3	2.0	1,3	1:3		2.3
	%08	37.3	56.7	50.0	1.3	2.7	6.7	12.7	22.0		23.7
ATER THAN	%02	19.3	92.7	91.3	8.0	7.3	16.7	52.0	59.3		80.08
HUMIDITY GRE	%09	4.86	99.3	98.0	35.3	47.3	72.7	84.7	92.7		78.4
OF RELATIVE	20%	0.001	100.0	100.0	86.7	92.0	96.0	97.3	66.3		94.4
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	40%	100.0	100.0	100.0	98.7	7.96	66.3	100.0	100.0		90.3
PERCENTA	30%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.001
	20%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
	%01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
HOURS	(L.S.T.)	10	40	0.1	10	13	16	19	22		ALS
MINOM	TINOW.	APR									TOTALS

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

STATION

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STATION NAME

73-77

HONTH MAY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	OBS.	155	155	155	155	155	155	155	155		1240
MEAN	HUMIDITY	19.0	83.5	81.6	0.49	0.40	67.3	73.3	76.5		73.7
	%06	7:1	15.5	9.0	2:6	1:9	1:9	9:	5.8		5.6
	%08	40.0	67.7	58.1	7.1	5.2	6.9	18.7	30.3		29.3
ATER THAN	%02	85.2	95.5	92.3	20.0	18.1	28.4	66.5	77.4		4.09
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	90%	1.86	100.0	100.0	63,2	59.4	81.3	91.0	96.1		86.1
Y OF RELATIVE	20%	100.0	100.0	100.0	93.5	97.4	98.7	98.7	4.66		98.5
GE FREQUENC	40%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
PERCENTA	30%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001		100.0 100.0
	20%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
	%01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
HOURS	(L.S.T.)	10	90	10	10	13	16	19	22		TOTALS
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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

STATION

STATION NAME

73-77

JUL

PERIOD

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	obs.	155	155	155	155	155	155	155	155		. 540
MEAN	HUMIDITY	77.1	80.9	78.8	59.6	9.09	2.40	70.0	72.6		* 4
	%06	1,3	4.5	3.2							
	80%	31.6	56.8	37.4		9.	1.9	4.5	16.1		7 0.
ATER THAN	%02	85.8	93.5	95.5	1.3	3.9	14.8	43.2	58.7		,
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	100.0	100.0	100.0	45.2	2.48	72.9	92.3	96.1		,
Y OF RELATIVE	20%	100.0	100.0	100.0	96.1	95.5	95.5	98.7	100.0		
GE FREQUENC	40%	100.0	100.0	100.0	100.0	100.0	4.66	100.0	100.0		0 40
PERCENTA	30%	100,0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
	20%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		0 000
	%01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
HOURS	(L.S.T.)	10	90	10	10	13	16	61	22		
HINOW		JUL									TOTALS

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

STATION NAME

STATION

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MONTH AUG

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10% 20% 30%		PERCENTAGE FI	I GE FI	REQUENC 40%	CY OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN           30%         40%         50%         70%	ATER THAN	80%	%06	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
10	100.0	100.0	100,0	100.0	100.0	98.7	83.9	41.9	1.0	78.6	155
40	100.0	100.0	100.0	100.0	100.0	100.0	7.68	9.09	10.3	82.0	155
20	100.0	100.0	100.0	100.0	100.0	98.7	89.0	55.5	9.0	80.7	155
10	100.0	100.0	100.0	100.0	6.26	52,3	12.9	3.2	1.9	61.8	155
13	100.0	100.0	100.0	100.0	6.26	52.3	5.5	••		8.09	155
16	100.0	100.0	100.0	100.0	93.5	74.8	17.4	9.		63.8	155
19	100.0	100.0	100.0	100.0	4.66	87.1	51.6	7.1	9.	70.3	155
22	100.0	100.0	100.0	100.0	100.0	92.9	67.1	50.6	••	73.5	155
				7			1				
	100.0	100.0	100.0	100.0	97.3	82.1	52.1	23.8	3.0	71.4	1240

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

STATION

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STATION NAME

73-77

MONTH SEP

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

TOTAL	OBS.	150	150	150	150	150	150	150	150		1200
MEAN	HUMIDITY	82.1	84.9	82.9	63.3	95.0	67.3	73.4	17.6		74.2
	%06	14:7	20.02	12,0		1.	2.0	1;3	7.3		7.3
	80%	63.3	76.0	72.0	0.4	2.7	7.3	21.3	39.3		35.7
ATER THAN	%02	85.3	91.3	88.0	12.0	12.7	29.3	1.49	79.3		57.8
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	97.3	100.0	99.3	69.3	62.0	78.0	88.7	92.7		95.9
Y OF RELATIVE	20%	100.0	100.0	100.0	92.7	89.3	97.3	88.66	66.6		97.2
GE FREQUENC	40%	100.0	100.0	100.0	100.0	99.3	100.0	100.0	100.0		6.66
PERCENTA	30%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100:0
	20%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
	10%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
HOURS	(L.S.T.)	10	*0	07	10	13	10	19	22		SII
MONTH		SEP									TOTALS

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

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STATION NAME

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TOTAL	080	155	155	155	155	155	154	155	155			1239
MEAN	HUMIDITY	83.9	1.98	85.7	68.5	69.69	69.7	75.9	80.2			77.1
	%06	7.1	18:7	11.6	1:0	2.6	5.5	4.5	5.8			7.2
	80%	72.9	83.9	85.2	5.2	0.6	9.1	21.3	45.2			41.5
ATER THAN	20%	97.4	1.86	4.66	31.0	19.4	33.1	74.2	2.46			4.89
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	100.0	100.0	100.0	1.68	77.4	92.2	98.7	4.66			4.1
Y OF RELATIVE	20%	100.0	100.0	100.0	4.66	97.4	100.0	100.0	100.0			98.6
GE FREQUENC	40%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			100.0
PERCENTA	30%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			100.0
	20%	100.0	100.0	190.0	100.0	100.0	100.0	100.0	100.0	,		100.0
	10%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			100.0
HOURS	(LS.T.)	10	•0	10	10	13	16	61	22			ST
MONTH		967										TOTALS

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

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MONTH

TOTAL	OBS.	150	150	150	150	150	150	150	150		1200
MEAN	HUMIDITY	82.8	99.68	85.7	9.59	6009	66.1	72,3	78.2		34.6
	%06	6:0	15,3	16.0		1;3	1.3	1;3	4:1		5:7
	%08	63.3	81.3	78.0	2.0	1,3	7.3	17.3	40.0		36,3
ATER THAN	%02	1.96	0.96	100.0	7.02	0.4	20.0	56.7	65.3		60.2
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	66.3	100.0	100.0	76.0	53.3	76.1	92.0	7.86		87.0
Y OF RELATIVE	20%	Ĭ00.0	100.0	100.0	66.3	92.0	98.7	100.0	100.0		8.8
GE FREQUENC	40%	100.0	100.0	100.0	100.0	98.7	100.0	100.0	100.0	-	8.66
PERCENTA	30%	100.0	100.0	100,001	100.0	100.0	100.0	100.0	100.0		100.0
	20%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
	10%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
HOURS	(L.S.T.)	10	40	10	10	13	16	19	22		STA
HINOW		NON									TOTALS

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### RELATIVE HUMIDITY

11706 GUANTANAMO BAY, CUBA

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STATION NAME

STATION

73-77

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TOTAL	OBS.	155	155	155	155	155	155	155	155		1240
MEAN	HUMIDITY	84.1	87.1	4.78	0.70	9.09	63.5	72.6	19.1		75.2
	%06	9.0	19:4	21,3		1:9	1,3	3.2	3.9		7.5
	%08	74.8	88.4	1.68	3.2	2.6	4.5	12.9	9.04		39.6
ATER THAN	20%	98.1	98.7	7.86	29.7	4.7	17.4	61.3	1.68		65.9
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	%09	100.0	100.0	100.0	81.3	51.6	65.2	92.9	7.86		86.2
OF RELATIVE	20%	100.0	100.0	100.0	100.0	89.7	92.9	4.66	100.0		97.8
GE FREQUENCY	40%	100.0	100.0	100.0	100.0	98.1	+*66	100.0	100.0		7.66
PERCENTA	30%	100.0	100.0	0.001	0.001	100.0	100.0	0.001	100.0		100.0
	20%	100.0	100.0	100.0	0.001	0.001	100.0	100.0	100.0		100.0
	%01	100.0	100.0	0.001	0.001	0.001	100.0	100.0	100.0		100.0
HOURS	(L.S.T.)	10	40	0.0	10	13	16	19	22		VLS
TINON		290									TOTALS

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### RELATIVE HUMIDITY

GUANTANAMO BAY, CUBA 11706

STATION

STATION NAME

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MONTH ALL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

	PERCENTAC	SE FREQUENC	Y OF RELATIVE	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN	ATER THAN			MEAN	TOTAL
20% 30%		40%	20%	%09	20%	%08	%06	HUMIDITY	OBS.
100.0 100.0		80.66	1.96	77.1	53.7	27.8	1,3	71.0	1239
100.0 100.0		99.1	98.8	79.3	52.6	26.2	1.6	4.07	1128
100.0 100.0		8.66	6.96	78.2	50.6	23.8	6:	70.3	1240
100.0 100.0	-	66.3	4.96	78.6	50.8	23.7	2.2	70.6	1200
100.0 100.0		100.0	98.5	86.1	4.09	29.3	5.6	73.7	1240
100.0 100.0		100.0	6.66	92.9	66.3	30.8	3.3	4.9	1200
100.0 100.0	-	6.66	98.2	82.6	49.6	18.6	1:1	70.5	1240
100.0 100.0		100.0	97.3	82.1	52.1	23.8	3.0	71.4	1240
100.0 100.0		6.66	97.2	85.9	57.8	35.7	7:3	74.2	1200
100.0 100.0		100.0	9.66	94.7	68.4	41.5	7.2	17.1	1239
100.0 100.0		8.66	98.8	87.0	60.2	36.3	5.7	74.6	1200
100.0 100.0		49.7	97.8	86.2	65.9	39.6	7.5	78.2	1240
100.0 100.0		8.66	97.7	84.2	57.1	29.8	3.9	72.9	14606

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE	
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GUANTANAMO BAY

11706 STATION

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101 01 76											
92 10 96											
16 01 78				53.8	23.1	23.1				23	
82 TO 86	1.6		20.6	44.4	25.4	4.2		.5		189	15.3
77 TO 81	11.5		25.8	23.0	7.8	2.8	2.2	9.		322	
72 10 76	42.0		10.8	1.8	1.8		6.	4.8	10.5	333	
17 07 79	61.2		1.2	. 3			.3	3.1	7	322	
62 TO 66	52.6	33.3	3	1.8					8.8	57	
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102 TO 106

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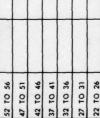
				11.5	12.5	4.3	1.8	
				5.5	16.6	23.8	21.2	19.5
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PERCENTAGE FREQUENCY OF AIR TEMPERATURE

WIND DIRECTION

GUANTANAMO BAY, CUBA

11706 STATION

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122+										
117 TO 121										
112 TO 116										
107 701										
102 TO 106										
101 01 26										
92 10 96										
87 TO 91	3.3		13.3	43.3	23.3	13.3	60			
82 TO 86	2.1	4.0	16.0	30.6	21.2	0		6.1	0	3.9
17 TO 81	12.8		17.4	25.3	8.7	4.7	6.1	2.0	7.8	34
72 TO 76	49.0	24.6		2.0			9.	6.9	10.3	36
17 07 79	67.0							2.7	8	
62 TO 66	100.0									
19 01 78										
52 TO 56										
47 TO S1										
42 TO 46										
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-53 TO-49										
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-59 & LWR										
TOTALS	28.4	15.0	11.4	19.0	8.6	4.0	3.5	3.5	6.9	124
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WIND DIRECTION

GUANTANAMO BAY, CUBA

11706 STATION

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2.9 5.7 C.6 25.7 31.4 22.9 2.9 4.0 15.9	17 10 121											
2.9 5.7 31.4 22.9 2.9 2.9 14.4 3.5 11.2 3.5 11.2 3.5 11.2 3.5 11.2 3.5 11.2 3.5 11.2 3.5 11.2 3.5 11.0 3.5 11.2 3.5 11.0	112 TO 116											
2.9 5.7 0.6 25.7 31.4 22.9 2.9 4.0 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	111 07 701											
249 5-7 0-6 25-7 31-4 22-9 2-9 33 321 14-5 11-5 36-1 19-0 15-9 4-0 0-9 2 321 14-5 11-5 36-1 19-0 15-9 4-0 0-9 2 321 11-2 0-9 2	102 TO 106											
2 2 9 5 5 7 3 6 6 2 5 7 3 2 6 6 2 5 9 3 9 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	101 01 76											
2.9 5.7 3.6 25.7 31.4 22.9 2.9 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	92 TO 96											
14, 7, 5 11, 5 36, 1 19, 0 15, 9 4, 0 4, 0 4, 0 4, 2 358  15, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	87 TO 91	2.9	5.7	3.6	25.7	31.4	22.9	2.9			35	2.5
14.5   15.4   15.4   15.9   8.7   10.1   6.4   1.4   9.2   38.8	82 TO 86	4.7		11.5	36.1	19.0	15.9	4.0	6.	. 3	321	26.8
6 100-0 1.1 1.1 2 .9 1.1 1.1 3 .8 4.0 11.0 36.1 36.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 1	77 TO 81	14.5		15.4	18.9	8.7	10.1	6.4	1.4		358	29.6
6 100 11 11 2 .9 1,7 .9 111,2 6,0 116 116 116 116 116 116 116 116 116 11	72 TO 76	55.0		4.3	1.1	1,1	6.	. 8	7.0		369	30.6
6 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 07 78	68.1		6.	1.7	6.			11.2		116	6
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NAVWEASERVCOM

TEMPERATURE	
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WIND DIRECTION

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JAN 1973 - DEC 1977 GUANTANAMO BAY, CUBA

STATION

TEMP.	≥ x ×	N N E	& ENE	ESE & SE	SSE & S	SSW S SW	wsw w	> × × ×	CALM	TOTAL FREQ.	% OF TOTAL
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121 01 711											
112 TO 116											
111 07 701											
102 TO 106											
101 OT 76											
92 TO 96					100.0						
16 01 78	3.1		6.2	26.2	32.3	21.5	10.8			65	3.6
82 TO 86	3.6	2.3	7.2	33.2	21.4	19.8	9.8	. 5		388	31.
18 01 77	23.7	12.2	8.7	14.6	7.3	8.2	8.0	4.0		426	4.48
72 TO 76	60.2	18,3	9.0	2.7	9.		. 3	4.1		336	27.
17 07 79	76.2	9.5			8.4	101		4.8		2.1	1.
62 TO 66											
19 01 75											
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PERCENTAGE FREQUENCY OF AIR TEMPERATURE

WIND DIRECTION

GUANTANAMO BAY, CUBA

11706 STATION

- DEC 1977 JAN 1973

WIND DIRECTION

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-53 TO-49

-48 TO-44

-58 TO-54

-59 & LWR TOTALS

-28 TO-24 -33 TO-29 -38 TO-34 -43 TO-39

-18 TO-14

-13 TO -9

-3 TO 1

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2 TO 6

17 10 21

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12 TO 16

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE

WIND DIRECTION

GUANTANAMO BAY, CUBA

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JAN 1973 - DEC 1977

WIND DIRECTION

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-13 10 -9	-18 TO-14	-23 TO-19	-28 TO-24	-33 TO-29	-38 TO-34	-43 TO-39	-48 TO-44	-53 TO-49	

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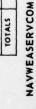
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PERCENTAGE FREQUENCY OF AIR TEMPERATURE

WIND DIRECTION

JAN 1973 - DEC 1977

GUANTANAMO BAY, CUBA

11706 STATION

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82 TO 86

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19 01 75	52 TO 56	47 TO 51	42 TO 46	37 TO 41	32 TO 36	27 TO 31	22 TO 26	17 10 21
25	52	47	42	37	32	27	22	17

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17 TO 21	12 TO 16	7 TO 11	2 10 6	-3 TO 1	-8 TO-4	-13 10 -9

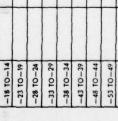
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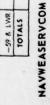
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PERCENTAGE FREQUENCY OF AIR TEMPERATURE	
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GUANTANAMO BAY, CUBA

11706 STATION

WIND DIRECTION
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122+											
121 01 711											
112 TO 116											
111 OT 701											
102 TO 106											
101 01 76											
92 10 96				40.0		20.0	,			10	8.
16 01 78	4.4		6.3			7.3	1.5	1.5		205	17.1
82 TO 86	12.0	7.9	18.3	29.0	13.6	5.4	3.8	1.0	8.2		26.4
18 01 77	46.9	-	.00		2.7	1.5		3.2	15.6		34.1
72 TO 76	58.9		1.2		80	1.2	*	3.5	8.1		21.5
17 07 79		-									-
62 TO 66											
19 01 79											
52 TO 56											
12 01 74											
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TOTALS	32.6	14.3	0.6	16.7	10.5	3.0	1.6	2.6	9.3	1200	10000

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NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

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GUANTANAMO BAY, CUBA

11706 STATION

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ESE	& SE								26.4		20.1	1.02	1.0	1.05	1.05	1.05	1.02	1.02	1.00	1.00	1002	1002	1002	1001	1001	1.00	1.00	1.001	1.001	1002	1002	1002	1002	1002	1002	1002	001	001	000000000000000000000000000000000000000	1002
ENE	8 E								8.8		14.2	14.2	3.7	3.7	3.7.1	3.7	3.7.1	3.1.6	3.1	3.7	3.1	3-1-2	3 4.5	3 4.1	3 4.1	3 4.5	3 7 1 2 3 3 4 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3-1-2-	3-1-2-	3-1-2-	34.5	3-1-2-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-	34.2	34.1	3-1-2-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-	3 4 1 2 3 4 5 1 1 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 4 1 2 3 4 5 1 1 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	34.1	3 4 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	3 4 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7
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ENTAGE FREQUEN	27
CENTAGE FREQUEN	27
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PERCENTAGE FREQUEN	27

WIND DIRECTION

JAN 1973

GUANTANAMO BAY, CUBA

11706 STATION

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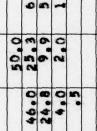
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117 TO 121

122+

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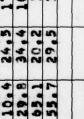
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102 TO 106

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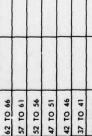


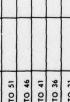
72 TO 76

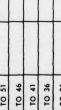
77 TO 81

67 TO 71

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24.1

36.2

-59 & LWR

-58 TO-54

-53 TO-49

1.2 26.2 27.5 23.1

WIND DIRECTION

GUANTANAMO BAY, CUBA

11706 STATION

TEMP. 122+

% OF TOTAL

DECEMBER

WIND DIRECTION

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ENE	w %	20.0		700	14.2	14.2
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w	z		0.8		3.1	3.4

77 TO 81 72 10 76 17 OT 79 62 TO 66

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-59 & LWR

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VS.

WIND DIRECTION

JAN 1973 - DEC 1977

11705 STATION

25.0 25.0 8.7 7.8 % OF TOTAL ALL 1303 1303 1465 1277 156 10 TOTAL FREQ. 11.2 CALM 0.00 C WNW WN W WSW W W WIND DIRECTION SSW & SW 18.9 16.6 5.2 8 SSE & S 20011 ESE & SE 11.9 34.0 ENE ENE GUANTANAMO BAY, CUBA 200 200 4 200 200 4 200 200 4 200 200 4 200 200 4 NNE 8 NE 34.4 50.0 NN N -48 TO-44 -18 TO-14 -23 10-19 -28 TO-24 -33 TO-29 -38 TO-34 -43 TO-39 -53 TO-49 -58 TO-54 -13 TO -9 111 07 701 82 TO 86 42 TO 46 101 01 76 62 TO 66 92 10 96 17 07 79 47 TO 51 37 TO 41 32 10 36 27 10 31 22 TO 26 7 10 11 -8 TO-4 117 10 121 112 70 116 16 01 78 18 01 77 72 10 76 57 TO 61 52 TO 56 17 10 21 -3 70 1 102 TO 106 12 TO 16 TEMP. 2 10 6 122+

-59 & LWR TOTALS

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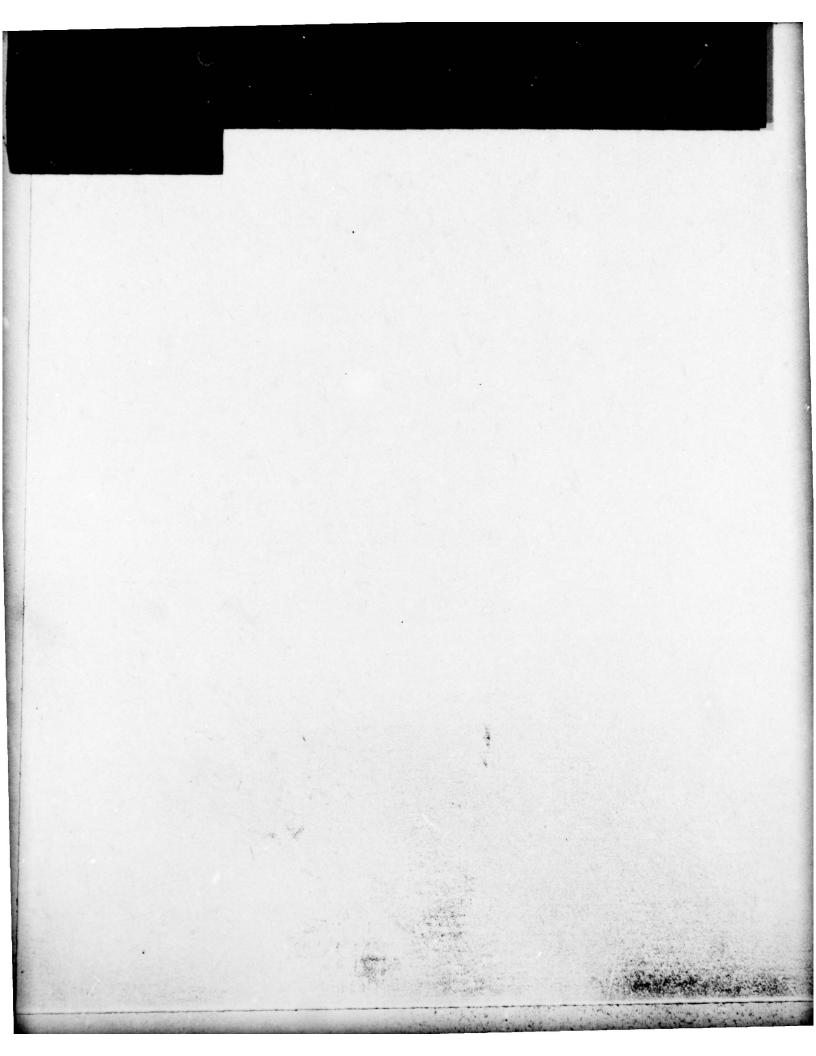
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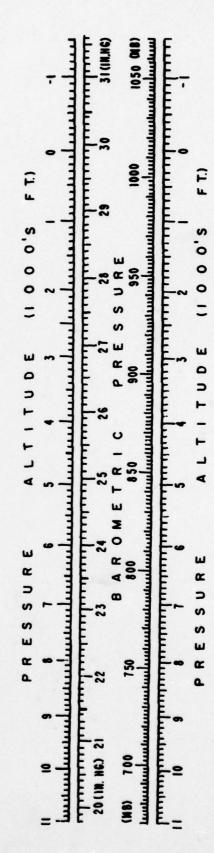
## ART F

## PRESSURE SUMMARY

for all hours combined. All years of data available are combined in both of these tables, although the overall Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding The same computations are also provided at the bottom of the page period is limited to January 1946 through December 1963 because of changes in reporting practices before and to the eight 3-hourly synoptic times GCT. after those dates.

- 1. Station pressure in inches of mercury.
- 2. Sea-level pressure in millibars.

altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure Meteorological Tables.



## MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HE FROM HOURLY DBSERVATIONS

-77	YEARS
GUANTANAMO BAY, CURA	STATION NAME
	STATION

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
10	S. D. TOTAL OBS	29.971	29.9692	9.9412	9.9242	006.6	29.9192	9.940	29.9092	29.8792	9.8492	9.886	096.62	29.919
	MEAN	29.94629	20,6,60	16.6	6.6	9.881	. 60	9.922	880	10	9.8	9.865	216.60	29.89
40	S. D. TOTAL OBS	.051	.052	045	150	185	150	.031	.038	.045	.058	150		
0.1	MEAN S. D.		29.97929.9782	9.9562	9.943	27.	29.9332	9.954	084	29.8862	6 .	9.903	29.949	29.932
	MEAN	-	30.000.0152	9.98	0.6	9.037	3	9.047	926	90.90	9.6	9.93	29.985	20.05
2	S. D. TOTAL OBS		.00.	155	150	0	.039	.033	.038	5.0	.056	150	0,7	
2	MEAN S. D. TOTAL OBS	29.954	29.95429.9592	9.9322	9.920	29.903	29.9202	9.941	29.9042	29.8652	9.8332	9.864	29.917	29.909
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2	S. D. TOTAL OBS		29.92529.9162 .049 .049 155 141	9.8892	0.878	29.864	29.8662	9.906	29.868	29.8332	9.8052	9.839	29.891	29.875
19	S. D. TOTAL OBS		29.95729.9442 .050 .052	9.9182	9.9092	9.887	29.9072	9.925	.038	29.8632	9.8392	9.877	29.926	29.903
22	MEAN S. D.	29.992	62	6.6	9.951	29.928	29.9462	9.965	29.933	29.9042	9.8762	9.912	29.964	29.943
	TOTAL OBS	-		2	-	-	*	5	-	-	-	-		1826
ALL	S. D. TOTAL OBS		29.96829.9632 .057 .058	.053	9.924	29.903 .051	29.9202	9.940	29.906	29.8742	9.8462	9.884 .061	.065	29.917

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## MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY DESERVATIONS

11706		GUANTANAMO	BAY'S	CUBA			73-77	11		2012			1	
			-							TEARS				
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNOAL
6	S. D. TOTAL OBS	1017.21017.21	1.759	1016.21	1.825	1.579	1015.4	1016.2	1015.1	1014.1	1013.1	1014.3	2.020	1015.5
*	S. D. TOTAL OBS	1016.4101	1.783	1.512	1.778	1.619	1.383	1015,61	1014.4	1,514	1,894	1.803	1.954	1014.7
01	S. D. TOTAL OBS	1.716 1.7	1.737	1.329	1.814	1.597	1.323	1016.61	1015.5	1014.4	1.930	1.839	1.957	1015.9
91	S. D. TOTAL OBS	1018.9	1.713	1.538	1.825	1.502	1.309	1.107	1.283	1015.11	1,869	1.868	2.000	1016.7
2	S. D. TOTAL OBS	1016.71016.81 1.649 1.695 1.55 141	1.695	015.9	1015.51	1.405	1.309	1.064	1.312	1013.7	012.6	1013.6	2.026	1015.1
2	S. D. TOTAL OBS	1015.7	1.676	1014.41	11.773	1.472	1.284	1.089	1.352	1,512	011.6	1.815	1014.5	1014.0
61	S. D. TOTAL OBS	1016-81016-31 1-688 1-762 155 141	1.762	10476	1015.11	1.487	1.255	1.005	1.260	013.6	1.895	1.851	1.952	1014.9
22	S. D. TOTAL OBS	1.776 1.71	1.715	1.456	1.779	1.548	1.273	1.054	1.207	015.0	1014.01	1015.21	1017.0	1016.3
ALL	MEAN S. D. TOTAL OBS	1.943 1.96	1.984	1240	1015.61	1.719	1.475	1.254	1.465	1.687	2.062	2.049	2.192	1015.4

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